

CALIFORNIA ENERGY COMMISSION
GUIDANCE TO THE CALIFORNIA CLIMATE ACTION REGISTRY
WORKSHOP

CALIFORNIA ENERGY COMMISSION
1516 NINTH STREET
HEARING ROOM B
SACRAMENTO, CALIFORNIA

THURSDAY, MAY 27, 2004
10:05 A.M.

Reported by:
Alan Meade
Contract No. 150-01-005

PETERS SHORTHAND REPORTING CORPORATION (916) 362-2345

STAFF PRESENT

Susan Brown, Workshop Moderator

Lisa DeCarlo, Staff Counsel, Energy Commission

Jeff Wilson, Climate Change Program, California
Energy Commission

ALSO PRESENT

Andrea Tuttle, Director, California Department of
Forestry and Fire Protection

Diane Wittenberg, President, California Climate
Action Registry

Michelle Passero, Policy Director, Pacific Forest
Trust

Suzie Greenhaugh, World Resources Institute

Ken Andraski, Environmental Protection Agency

Doug Wickizer, California Department of Forestry
and Fire Protection

Terry Collins, Collins Pine Company

Jeff Fieldler, NRDC

Ellen Hawes, Nature Conservancy

John Nickerson, Mendocino Redwood Company

Don Justin Jones, COPEC

Maurice Roos

Patrick Quinn, Principle Investigator

Bob Prolman, Director, Weyerhaeuser

Robert Jones, Ecolinx Foundation

I N D E X

	Page
Proceedings	1
Opening Remarks	1
Moderator Susan Brown	1
Andrea Tuttle	3
Overview	16
California Climate Action Registry	19
Forest Protocols	19
Public Questions and Comments	49
Afternoon Session	119
Public Questions and Comments Resumes	119
Adjournment	162
Certificate of Reporter	163

1 P R O C E E D I N G S

2 10:00 a.m.

3 MODERATOR BROWN: Thank you all for
4 coming. My name is Susan Brown, and I manage the
5 Transportation Technology Group at the California
6 Energy Commission.

7 A few months ago I was given oversight
8 responsibilities for climate change, which is a
9 huge undertaking as you might imagine. So, I am
10 very pleased to have everyone here today.

11 A few housekeeping items first. We are
12 recording this workshop, so I'm going to ask
13 anyone that speaks to first sign up in the back.
14 There's a sign up sheet because we will be
15 preparing a transcript of this workshop. If you
16 do speak, would you please identify yourself for
17 the record by name and affiliations, so that the
18 court reporter can record your comments.

19 If you have business cards, I think he
20 would really appreciate having those in advance.
21 That is it for the preliminaries.

22 I believe the purpose of today's
23 workshop is to solicit public comments and have
24 some public consultation on proposed forestry
25 protocols.

1 These protocols were developed for a
2 forest work group which was convened by the
3 California Climate Action Registry. It has been
4 meeting for I believe over a year, and the product
5 you have is I believe over 200 pages long. It is
6 very comprehensive, but I think we would all agree
7 it is still considered a work in progress.

8 Protocols are not easy to write. They
9 are actually not rules, they are guidelines that
10 can be used to estimate, calculate, and report
11 greenhouse gas emissions from forestry projects.

12 I think today we would like to get as
13 much interaction going as we can. I would like to
14 run this rather informally, but again, with the
15 court reporter, you will have to identify yourself
16 for the record when you speak.

17 We did notice this workshop by a notice
18 that was released by the Energy Commission, and I
19 want to make a few comments about the process. We
20 are holding the record open until June 3, which I
21 believe is a Thursday to obtain additional written
22 comments. Following that comment period, the
23 Forestry Work Group will convene and be prepared
24 to address each and everyone of the comments they
25 receive.

1 Then there will be a revised set of
2 protocols released sometime I believe in mid-June.
3 I will let Diane comment a little bit later on the
4 specifics. I think they are scheduled for a June
5 24 board meeting here in Sacramento, a meeting of
6 the Registry Board if all goes as planned. Again,
7 consider these to be work in progress until they
8 are actually applied to specific forest projects,

9 I think our belief is that these rules
10 will continue to change and be updated and
11 approved and refined over time. So, I think that
12 is kind of the gist of the point I wanted to make.

13 I am going to withhold further comments
14 till later in the meeting. At this time, I am
15 very pleased to introduce Andrea Tuttle, who is
16 the Director of the Department of Forestry in the
17 Resources Agency, and she has a few remarks to
18 make.

19 MS. TUTTLE: Thanks a lot. I am Andrea
20 Tuttle, for the record, the Director of the
21 California Department of Forestry and Fire
22 Protection.

23 I think most of the people in the room
24 here are pretty fluent in both the vocabulary and
25 the concepts of forest carbon, but since we didn't

1 know exactly who was going to be here, I am going
2 to go through just a few basic concepts and
3 principles.

4 First of all, I very much want to thank
5 the working group for all the work that you have
6 put in. All of you who have met -- raise your
7 hands on the working group. You guys, plus a
8 number of others have been working very hard on
9 technical stuff for the last it is almost two
10 years to get us this far.

11 My role here is to set the context
12 within which these forest protocols fall and say
13 something about why they are so important to
14 California. Diane Wittenberg is going to speak
15 next and will speak more to what the California
16 Climate Registry is, and Michelle Passero will
17 speak to more of the specifics of the protocols
18 themselves.

19 I want to set the scene. What we are
20 doing here in proposing these Forest Carbon
21 Protocols is to provide a functional mechanism and
22 a standardized system by which land owners can
23 record or register the storage of carbon on their
24 lands above a business as usual baseline.

25 There is a second thing that we are

1 doing here which is also very important to the
2 state, and that is to offer new incentives to land
3 owners to provide additional environmental
4 services on their land that benefit not only the
5 climate but a lot of other environmental goals as
6 well.

7 These will help incentivize landowners
8 for excellent forest practices, the growing of
9 bigger and older trees, even more retention, end
10 stream buffer corridors and repair end corridors
11 beyond which the Board of Forestry rules require.

12 It will help provide some incentive for
13 protection of coho. This has been a regulatory
14 area for the Board of Forestry and the Fish and
15 Game Commission for at least five years, and
16 extremely important to me and many others is
17 keeping our forest lands in forest production.

18 Most Californians don't realize that we
19 think of our forest lands as being out there and
20 they will always be there, but indeed, they are
21 being converted and lost to development at a very
22 high rate. To the extent that we can keep those
23 forest lands in production, we will retain all the
24 environmental benefits that come with it.

25 The open space values, the wildlife

1 habitat values, the watershed values, the
2 producing water for domestic use -- most of the
3 water in California comes from forested water
4 sheds, and so this idea of conversion of our
5 forest land is that we need to recognize that as a
6 threat to the forest environment here.

7 Most of you -- oh, wait a minute, go
8 back. I haven't even started on these. Go back
9 to the beginning. Okay. Most of you are familiar
10 with the global climate cycle and the carbon
11 cycle. What we are talking about here today is
12 this portion that is dealing with the
13 sequestration of carbon.

14 We have our fossil fuel burners and our
15 cars and our industries that are burning fossil
16 fuels that are producing CO 2, how does it get
17 cycled back? It gets cycled back through the
18 process of photosynthesis.

19 If you remember your basic chemistry, CO
20 2 plus water equals sugar, sugar is stored as
21 cellulose and other forms in a tree, and that is
22 the sequestration part.

23 Now we are ready for the next one.
24 Looking more closely just at that forest part of
25 the forest carbon cycle, this is Birdsey and

1 Lewis. Many of you are familiar with his work.
2 The growth is the photosynthesis part where the
3 CO2 from the atmosphere is converted into sugars
4 and cellulose which then the trees grows, the
5 vegetation grows, they die, and then you have
6 these various components of where this forest
7 carbon is stored.

8 The aspects that are treated in the
9 forest protocols are this box, this box, this box,
10 this box, this box, this box, and this one is
11 optional. Okay, the next one please.

12 I think most of you are aware of some of
13 the impacts of global warming to California. What
14 we are really concerned about through my lens is
15 that portions of the state are predicted to become
16 hotter, drier, and windier. For us, that affects
17 our wildfire regime. It has severe implications
18 for the distribution of our species, our various
19 ecological communities.

20 As it gets warmer and drier, our
21 communities will move northward and higher in
22 elevation. The question is will those move as
23 intact ecological communities, or will some
24 species move faster than others, which means
25 invasives will play a part, and we will lose the

1 kind of habitats that we are familiar with in
2 California.

3 The other piece, of course, that many
4 people are concerned about is the rise in sea
5 level and all the inundation of low lying areas
6 and that sort of things, but that is another
7 story.

8 Let me come back a little bit to this
9 concept I tried to introduce about the additional
10 environmental services that we benefit from in
11 keeping our forest lands as forest lands and
12 providing this opportunity for forest land owners
13 to register their forest carbon.

14 California is blessed with some of the
15 best conifer land in the country if not the world.
16 We have good forest soils, we have good forest
17 growing climate, and usually we have sufficient
18 water for our conifers.

19 We grow conifers more quickly than the
20 cooler areas, the boreal areas. Our trees grow
21 well, but we are threatened by two dominant
22 factors. If I could have the next one. This is
23 not showing very well in color, but you can see
24 the green trees, but every one of those other
25 trees in there is bright orange. Those are dead

1 trees.

2 This is the Lake Arrowhead area. This
3 is a car that has been crushed by a falling dead
4 tree. What has happened is that our forests, many
5 of them in California, because of active fire
6 suppression, are now overstocked. We have too
7 many stems per acre. This has come to a head. If
8 any of you are biologists in any way or interested
9 in seeing a natural phenomenon, go to the Lake
10 Arrowhead area and see 400,000 acres of standing
11 dead trees, orange trees as far as the eye can
12 see. Because the trees are overstocked, they out
13 compete each other for water. The ladder fuels
14 have built up, the bark beetles are a natural part
15 of the eco system, and they have a field day.

16 They have killed the trees. The
17 infestation is spreading. We have just had
18 reports in the Southern Tehachapi's and Southern
19 Sierra, and we expect this to continue.

20 CDF, as you know, is the premier
21 wildfire fighting agency certainly in this state
22 and ranks very high in the country. From a
23 wildfire protection standpoint, this is a
24 catastrophe waiting to happen.

25 If ignition starts, if we have an

1 ignition in these stands, the configuration is
2 going to be "of biblical portions". It is off the
3 scale in terms of our modeling, of our fuel
4 models, and our fire behavior models.

5 Ninety percent of these dead trees were
6 saved by heroic fire fighting in the October 2003
7 fire siege, so this is still there ready to
8 happen. We need management in these forests that
9 relates back to our forest protocols.

10 The first major threat to our forests in
11 California is unhealthy conditions, overstocking,
12 threat of wildfire. Now the next one.

13 The second one is conversion. This is
14 from our recent TRAP 2004 report, the assessment
15 of forest and range land conditions in California.
16 What this shows is the cause of conversion of
17 forest land since 1969. The red bars are '69 to
18 '78, the yellow are '79 through '88, and the
19 whitish are '89 through '98.

20 In the early decades of 1970, the
21 primary cause of conversion of forest land was
22 converting it to grazing land, just cutting it
23 back. This is historical from the 1880's,
24 ranchers wanted to get rid of the trees to get
25 more grazing land. This has been the traditional

1 cause of lost of forest land is due to grazing.

2 This is other agriculture, mining, water
3 development, recreation, and other. Look at what
4 has happened here. The last two decades, this is
5 subdivision. That is the primary cause of the
6 loss of our forest land.

7 As director of the department, there are
8 certain things that come to my desk. The most
9 disliked job I have, other than dealing with the
10 tragedies of fire fighter injuries and fatalities,
11 is to sign the conversion permits to take forest
12 land out of forest production. A certain class of
13 land conversions come to my desk and need a
14 director's signature.

15 The even bigger class of conversions do
16 not come to my desk, they just happen. Landowners
17 are able to roll their land out of timber
18 production zone simply by notifying the tax
19 assessor and over a ten year period it simply
20 rolls out of that zoning. This is occurring.

21 We do monitoring of land use changes
22 with the forest service on five year increments
23 rolling through the state, and you can see this.
24 The entire front face of the Sierra is being
25 fragmented. Those big blocks of forest lands that

1 we like is being chopped up and parcelized. Come
2 down into the Tehachapi's down across San Luis
3 Obispo, Ventura, Santa Barbara, Santa Cruz, and
4 Monterey, those redwood forests are in small
5 parcels.

6 Come on up in Marin County, Sonoma,
7 Napa, Mendocino, Humboldt County, and the
8 fragmentation is occurring throughout the state.
9 The economic pressure to subdivide and develop
10 your forest land is tremendous.

11 It is very hard to be a timber land
12 manager in California today because of the
13 economic incentive to convert. To the extent that
14 we can provide incentives, and that is what this
15 additional environmental benefit of these forest
16 protocols is, to the extent we can do that, we can
17 help protect our forests.

18 As to the protocols, all of the basic
19 questions that were raised by Kyoto and
20 (indiscernible) have been addressed: baselines,
21 additionality, leakage, and permanence.

22 On the baseline question, what
23 distinguishes California from so many other states
24 and countries is that we have a very highly
25 prescriptive nature to our forest practice rules,

1 acts and rules. The floor that we set for
2 allowable baseline behavior is a good floor.

3 You can go to the Board of Forestry and
4 argue about that. It is a different forum where
5 we talk about what that floor is, but it is a good
6 one, and it is more quantifiable than most other
7 BMP type approaches that you have in other states
8 and other countries.

9 We require land owners of 50,000 acres
10 or more to demonstrate to us that they are on
11 long-term sustained yield. Our clear cuts are
12 only 20 acres, the adjacent piece can't be entered
13 for so long and has to be so big. We have road
14 standards, culverts, watershed protection, spotted
15 owl, Marbled Murrelet, protection of archaeology
16 sites and so on. We have numerical retention
17 requirements for trees and the buffers and so on.

18 The point is that the rules set a
19 quantifiable floor that California can't take
20 advantage of. Some landowners have personal
21 objectives to operate their lands above that
22 floor, and that is what we want to award through
23 these protocols. I'm almost done here.

24 The key concepts of these protocols are
25 that it provides for managed forests, not just

1 preservation forests, that is different from many
2 of the acquisition projects that we've seen
3 elsewhere. It requires additionality above
4 business as usual. It requires that we deal with
5 natural forests, our natural forests species, not
6 introduced plantation species.

7 It requires permanence in that we
8 require a conservation easement keeping that land.
9 If you are going to get the benefit of registering
10 your good behavior, you need to insure that you
11 are going to keep that land as forest land through
12 the conservation easement. We have third party
13 verification, and we have entity wide and project
14 accommodation.

15 I've read some of the early comment
16 letters that came in. There were issues that were
17 raised are also the ones that the work group has
18 dealt with. I believe that the group has come to
19 a very equitable and common sense position on
20 those issues. I want to reiterate the point that
21 with these protocols we are not creating new
22 forestry regulation. If you want to do that, go
23 over to the Board of Forestry.

24 We are creating a voluntary reporting
25 structure. If a credit market ever develops, the

1 value of California forest carbon will be
2 reflected in the market price, and if it is
3 registered in this registry, it will be a very
4 high quality.

5 I predict a real market premium because
6 of these other environmental services that will be
7 provided by California forest carbon because our
8 registry is so well constructed and because of
9 these additional environmental services.

10 My last slide I have been using this
11 phrase "California has charismatic carbon". When
12 we go into the market, if and when markets for
13 these credits evolve, you will be able to say not
14 only I am an admitting CO2 producer, I'm not only
15 balancing my two emissions by sequestering carbon,
16 but I am also protecting salmon, big old trees,
17 beautiful forests, water sheds, and all of that.
18 That will have a market premium.

19 Thanks again to the work group for all
20 the hard work you've put in to this. I look
21 forward to the conversation today, and I certainly
22 encourage adoption of the protocols. Thank you.

23 MODERATOR BROWN: Any questions before
24 she steps away?

25 (No response.)

1 MODERATOR BROWN: Anyone on the phone?

2 (No response.)

3 MODERATOR BROWN: Thank you very much,
4 Andrea. Are you planning to stay with us then for
5 a good part of the day?

6 MS. TUTTLE: Yes.

7 MODERATOR BROWN: Great, wonderful,
8 thank you very much. I failed to note that there
9 are copies of the agenda available at the front
10 and also the protocols. So, again, for those of
11 you that came in late, I am Susan Brown. If you
12 wish to speak, please come to the microphone and
13 identify yourself for the record. That way we can
14 get a complete record of this workshop.

15 No questions. You got off easy. Thank
16 you.

17 At this time, I would like to identify
18 Diane Wittenberg and offer her time to make a few
19 comments.

20 MS. WITTENBERG: Thanks, Susan. I am
21 Diane Wittenberg, President of the California
22 Climate Action Registry. I'm really here to speak
23 just a minute or two to offer some context and
24 repeat already this morning a few things that
25 Susan and Andrea said.

1 The California Climate Action Registry
2 is not a state agency, it is a voluntary registry
3 whose goal is to encourage early action to reduce
4 greenhouse gases and to develop measurements for
5 greenhouse gas emissions and reductions that can
6 stand the test of time and can be protected if
7 they are in the registry in any future regulatory
8 regimes.

9 In that sense, we are not a regulatory
10 agency, we cannot turn reductions into credits.
11 We can't say whether the state will or the federal
12 government will. We are just trying to account
13 for what happens out there and make sure that it
14 is accurately recorded.

15 This forestry protocol really breaks a
16 lot of new ground, and I want to really say thanks
17 to the work group as well. It also included Jill
18 Gravender of the Registry who couldn't be here
19 today when the date got changed, she couldn't
20 change her plans. So, I'm here as her proxy, but
21 she is the expert and the one who has done all the
22 work from the registry perspective.

23 The new fronts -- I think this is really
24 the first comprehensive forest protocol that also
25 goes into projects of forest management,

1 reforestation, and conservation. Those were
2 really hard topics just from a process point of
3 view. The work group spent, I don't know,
4 hundreds of hours over the last year thinking
5 through these issues, talking to their peers.

6 We did a round of expert reviewers when
7 we thought we had it as right as we could get it,
8 and those expert reviewers came in with a lot more
9 comments that were very valuable and were right
10 on, and we are expecting interesting comments from
11 you all here today.

12 We've gotten written comments, we will
13 talk to all the people that will submit comments.
14 We will listen closely today. As Susan said, the
15 work group will take all that back, and then you
16 will hear the next step. Thanks to all of you for
17 coming, and we are looking forward to the results
18 of today and what you all have to say.

19 I guess -- should I just turn it over to
20 Michelle?

21 MODERATOR BROWN: Absolutely.

22 MS. WITTENBERG: Michelle Passero of the
23 Pacific Forest Trust led the work group, and she
24 is going to walk through the protocols as they
25 stand today. Michelle.

1 MS. PASSERO: You will have to bear with
2 me for one moment till I get -- I want to make
3 sure I do this right. I'm not technically savvy.

4 Can you hear me through the microphone
5 too? All right. Just for the record, my name is
6 Michelle Passero. I am Policy Director for the
7 Pacific Forest Trust.

8 I appreciate the introductory comments
9 both by Director Tuttle and Diane Wittenberg. I
10 think that they set a great context when we
11 contemplate these protocols and as I walk through
12 them with you.

13 I think a point worth reiterating is
14 what exactly is happening with forest land here in
15 California. California loses on average 60,000
16 acres of forest land each year to non-forest uses.
17 This rate of conversion is increasing.

18 With this conversion is a loss of
19 existing climate benefits that forests provide as
20 well as any future additional benefits that
21 forests may be able to provide, not to mention all
22 of the other attendant and environmental benefits
23 that forests provide, including bio-diversity,
24 species habitat, and water quality. Please keep
25 that in mind as we walk through these protocols.

1 As was mentioned earlier, there has been
2 a work group developing these protocols for over a
3 year now. The stakeholder work group includes
4 Pacific Forest Trust, the California Energy
5 Commission, California Department of Forestry,
6 Winrock International, The Nature Conservancy --
7 who else am I forgetting?

8 UNIDENTIFIED VOICE: Mendocino Redwood
9 Company.

10 MS. PASSERO: Oh, Mendocino Redwood
11 Company, sorry. I think -- California Department
12 of Forestry. There are eight members total. It
13 is worth noting that it has been a voluntary
14 effort. A lot of work has been put into this, and
15 it has been voluntary time. The drafts did go
16 through an expert review process. The expert
17 reviewers are comprised of a larger group of
18 people.

19 The intent was to get a variety of
20 expertise at the federal level, at the state
21 level, regional levels, people with climate
22 expertise as well as forestry expertise, people
23 reflecting smaller landowners, large landowners,
24 etc. to get the breadth of perspective that may be
25 out there with regards to these protocols.

1 We are currently going through the
2 public review process, and this public workshop is
3 a piece of that. We are happy to do that, and we
4 are looking forward to receiving feedback on these
5 protocols. Assuming everything goes on track,
6 then we will present these protocols to the
7 registry boards to be considered for adoption.

8 Over the summer then, there would be an
9 on-line mechanism created for reporting on line.
10 This tool is called CARROT, Climate Action
11 Registries Reporting Online Tool.

12 I think worth also mentioning the
13 context which was referred to early, the policy
14 context within which we developed these protocols.
15 Senate Bill 812 under the leadership of Senator
16 Sher, was also sponsored by the Pacific Forest
17 Trust. What amended the existing climate registry
18 legislation to include a framework for forest
19 accounting.

20 As mentioned earlier, the intent behind
21 that was to create an incentive for forest
22 landowners to keep their forests in forests and
23 the climate benefits that they provide, and to
24 encourage forest landowners to do more and create
25 more climate benefits from their forests.

1 The older legislation that created the
2 registry includes Senate Bills 1771 and the clean
3 up legislation 527. So, we also worked within the
4 broader existing legislative framework, and then
5 we also had existing registry policy. The
6 registry has already created a general reporting
7 protocol for sectors with a focus on what we call
8 non-biological emissions, emissions that are not
9 directly linked to bio mass per say. An example
10 may be fossil fuel combustion.

11 We also worked within the existing
12 general certification guidance that the registry
13 has already developed.

14 We did produce four draft
15 recommendations: forest entity reporting
16 guidance -- this forest entity reporting guidance
17 is an appendix in the existing general reporting
18 protocol. We also produced recommendations for
19 forest project reporting with a focus on three
20 projects in particular: conservation based forest
21 management, reforestation projects, and
22 conservation projects. I will be explaining what
23 exactly these projects are a little bit later.

24 The focus on these three were the direct
25 result of SB 812. These projects were identified

1 in the legislation.

2 We also produced draft protocol
3 recommendations for the certification of both
4 entity reporting as well as project level
5 reporting, and this is to give guidance to third
6 party certifiers.

7 I will start with the Forest Entity
8 Reporting Protocol. As I did mention, it is an
9 appendix to the general reporting protocol.

10 A forest entity is defined as a legal
11 entity or an individual who owns more than 100
12 acres of trees. The purpose of reporting at the
13 entity level would be to track changes in carbon
14 stocks and any related carbon dioxide emissions
15 over time.

16 Once we start to work on the appendix,
17 the Forest Entity Reporting Protocol, we realized
18 that we did need to make a distinction between
19 biological emissions and non-biological emissions.
20 The non-biological emissions are covered in the
21 existing general reporting protocol, the forest
22 sector introduced the notion of reporting
23 emissions that are related directly to forest
24 biomass, and therefore, to make the distinction,
25 we do call them biological carbon stocks and

1 biological emissions, meaning carbon stocks that
2 are in the trees and any related carbon dioxide
3 emissions that are directly related again to the
4 forest biomass.

5 If you are a forest entity reporting at
6 the entity level, you will have two documents to
7 follow for guidance. If you are a non-biological
8 emissions, you will be using the existing general
9 reporting protocol, but for your forest carbon
10 stocks and related carbon dioxide emissions, you
11 will refer to the appendix of the General
12 Reporting Protocol, which is what we developed,
13 the Forest Entity Reporting Protocol what we are
14 calling throughout. That will be the focus in
15 this presentation when I refer to the Forest
16 Entity Protocol.

17 There are geographical boundaries. This
18 evolved from the General Reporting Protocol. At
19 the entity level, you will be reporting or an
20 entity would be reporting for California only, or
21 they will report nation-wide, the one caveat being
22 that any level of reporting within California will
23 be certified. Any reporting that is outside of
24 California at this time would not be certified by
25 the registry. This evolves from Senate Bill 812,

1 which intended to focus right now on California.

2 The reporting responsibility is assigned
3 to the owner of the commercial and non-commercial
4 trees where the carbon is contained. Consistent
5 with the General Reporting Protocol, an entity
6 baseline is optional for forest entities, so a
7 forest entity can choose to establish a baseline
8 within the registry. Otherwise, if they choose
9 not to, they would simply report on a year-to-year
10 basis.

11 If a forest entity chooses to establish
12 a baseline, there are two pieces to this, or two
13 steps to it. One is more qualitative in nature,
14 where the entity would do a characterization of
15 their baseline, which in effect, is sort of a
16 characterization of the practices over the next
17 100 years. So, it would be a projection. The 100
18 year time period is something that many forest
19 managers are accustomed to as they do this with
20 their forest management plans, sort of consistent
21 with existing practices here in California.

22 The second component to an entity
23 baseline would actually be the quantification of
24 this baseline in terms of carbon. Your
25 characterization sort of lays the foundation for

1 how the carbon stocks would be quantified pursuant
2 to that characterization.

3 There are identified required carbon
4 pools that an entity would then seek to measure
5 for their forests. The carbon pools, if you are
6 familiar with the general reporting protocol, are
7 very similar to what we would call operational
8 boundaries. That is, identifying or the
9 categories from which there are potential sources
10 of emissions in terms of forests, those categories
11 would be carbon pools.

12 There are live biomass carbon pools as
13 well as dead biomass carbon pools. The live pools
14 and the ones that are required for reporting are
15 the tree bole or the trunk, the branches, leaves,
16 and roots. The dead biomass would be standing and
17 lying dead wood as well as wood products. We did
18 draw this distinction between required and what we
19 have also identified as optional pools as the
20 registry existing policy is that required pools
21 are certified and optional pools are not
22 certified.

23 We did draw a line in the sand to focus
24 on the carbon pools that are most likely to change
25 over the shortest periods of time. We also kept

1 in mind or tried to walk that balance of how
2 expensive it would be in requiring the measurement
3 of pools.

4 To reiterate then, the required pools
5 are the trunk, branches, leaves, roots, and dead
6 biomass. The required dead pools would be the
7 standing and lying dead wood as well as wood
8 products.

9 Emissions at the forest entity level
10 would be quantified as decreases in carbon stocks
11 over time. As I mentioned before, there is annual
12 reporting, and if your total carbon stocks that
13 are reported from year to year show a decline,
14 that would be deemed an emission. This is often
15 known as a stock change accounting approach.

16 Reductions, emission reductions, are not
17 for the purposes of the registry, are not achieved
18 at the entity level per say unless you are doing a
19 reduction project pursuant to the project
20 protocol. This is also an extension of SB 812, a
21 requirement of SB 812.

22 There is a little more background on the
23 quantification component of forest carbon stocks.
24 If you choose to do a baseline, you are going to
25 do a quantification of that baseline. It will be

1 based on an inventory that an entity must
2 undertake. If you choose to do just annual
3 reporting without the baseline, this is the
4 quantification procedure that you would also use.

5 We have set up minimum confidence
6 standards in order for an entity to report in the
7 protocol, and we have also set up standards for
8 what an inventory must include. This would be
9 provided to the third-party certifier. A forest
10 entity would need to identify and explain its
11 sampling methodology. Within that, there are
12 certain standards that are provided within the
13 entity protocol to promote consistency,
14 standardization and a certain level of accuracy
15 and precision.

16 In order to do estimates of your carbon
17 stocks, you will need to set up inventory plots.
18 One of the guidelines is that the plots must be
19 ten years old or younger. There also needs to be
20 a description of the stratification system that is
21 used to create these estimates as well as an
22 explanation of the analytical methods used to
23 translate all of your field measurements to volume
24 and/or biomass.

25 As a bit of background, many of you may

1 be aware of this and some may not, but when an
2 entity will be reporting, and this is sort of
3 consistent generally with reporting or
4 anticipating forest growth, you do a combination
5 of direct sampling and field measurements in
6 addition to using models for projections.

7 Direct sampling is -- both are required
8 within the protocol, and we've tried to strike a
9 balance then with how the two would be done. You
10 would have direct sampling, and 100 percent of the
11 direct sampling would have to be completed within
12 a ten year period, but also you would be able to
13 use models and to report in interim years.

14 The direct sampling would be a check
15 against your modeling, (indiscernible) come up
16 with your modeling. That is consistent with
17 current practices with how forest managers
18 actually do projections for their forest and the
19 forest inventory.

20 I'll explain the Forest Project Protocol
21 now. It is defined as a planned set of activities
22 that removes, reduces, or prevents carbon dioxide
23 emissions in the atmosphere by conserving and/or
24 increasing on-site forest carbon stocks.

25 This is consistent with the intent of SB

1 812. An ultimate purpose, then, what we sought to
2 achieve with these protocols is to provide
3 guidance on the measurement and monitoring of
4 greenhouse gas reductions that result from a
5 specific forest activities, but more specifically,
6 three types of forest projects: reforestation,
7 conservation-based management, and conservation.

8 Reforestation is the restoration of
9 native forest cover on areas that have once been
10 in forest cover but have been out of forest cover
11 for a minimum time frame of ten years.

12 Conservation-based forest management is
13 where commercial harvest and regeneration still
14 takes place, but it is done at a conservation
15 based level at a higher level than the baseline.

16 Conservation projects are defined as the
17 prevention of conversion to non-forest use. The
18 non-forest use may be agriculture or commercial
19 development. Those are examples.

20 Pursuant to SB 812, these projects must
21 be done in California only at the time. That is
22 where they would be certified.

23 Similar to what I covered in the entity
24 level reporting, there is a baseline
25 characterization. It is optional at the entity

1 level, however, at the project level it is
2 required. There should be some acknowledgement
3 that oftentimes there is a lot of discussion of
4 what is a proper baseline. We struck a balance in
5 keeping with the intent of SB 812 in developing
6 these baselines and trying to create an incentive
7 for forest landowners to keep their forests as
8 forests and to do more.

9 With reforestation -- actually, I'll
10 back up. There are two components to the baseline
11 again, similar to the entity level where you do
12 sort of a qualitative part of that where you do a
13 characterization, but then there is also a
14 quantitative part where we actually quantify it in
15 terms of carbon. This slide actually addresses
16 the characterization piece.

17 With reforestation, I had mentioned the
18 definition where it has at a forest cover for a
19 period of ten years. The project -- I'll use the
20 term project developer or forest entity, but
21 meaning the person who is actually implementing
22 the project, they would characterize the
23 reforestation baseline by describing the practices
24 that would be anticipated on the forest land over
25 time out into the future.

1 Something that would be consistent with
2 the reason why it has been out of forest cover for
3 a period of ten years. The presumption is that it
4 would stay out of forest cover for ten years.

5 There are other criteria within the
6 project protocol that help make the case for this
7 type of project, but I will just hit the main
8 points.

9 One of the other pieces, though, that
10 they would have to prove is that there is no law
11 that actually requires you to reforest that area
12 as well.

13 With forest management, Director Tuttle
14 did already refer to this, but the baseline for
15 forest management is the California Forest
16 Practice Rules, and the presumption is that for
17 the baseline it would be characterized according
18 to a manager who operated to the extent permitted
19 by law.

20 With forest conservation, we have two
21 approaches for the baseline characterization. One
22 is what we call an immediate site specific threat,
23 and there are a series of criteria within the
24 project protocol that a project developer would
25 use to make the case that there is actually a site

1 specific threat for this particular area.

2 That information would be the
3 characterization component of the baseline. We
4 have also developed tables, default tables based
5 on existing FRAP data. We actually are doing a
6 bit of an update to that. Now, we have some more
7 current information, but these tables provide
8 conversion rates by county.

9 Another way to characterize your
10 baseline for conservation projects would be to use
11 the conversion rate that is supplied in those
12 tables.

13 Project activities must be additional to
14 the baseline. Director Tuttle had referred to
15 this earlier, the baseline being what is
16 identified as business as usual. They must also
17 be additional to any applicable mandatory laws.

18 We have developed several graphs to give
19 a visual of the baseline and additionality. John
20 Nickerson from Mendocino Redwood Company has
21 developed these, and so I think it would be
22 appropriate then, John, if you just want to
23 explain these quickly, and I'll scroll through the
24 graphs.

25 MR. NICKERSON: I'll be happy to. This

1 issue of additionality was a large subject of
2 discussion within the working group. We ended up
3 resulting to these types of graphics to understand
4 it ourselves and make sure we were all talking
5 about the same things. So, we think they are very
6 useful in communicating what additionality is.

7 This is an example of a reforestation
8 project where a landowner basically doesn't have
9 any forest cover on their landscape, and they are
10 opting to plant some trees. What we are showing
11 here -- maybe I will go up here --

12 COURT REPORTER: Excuse me, sir, could
13 you take the microphone with you.

14 MR. NICKERSON: Sure. Okay, this is
15 starting point "0", the landowner enters their
16 landscape into a project and they decide to plant
17 it. We are showing the forest practice rules here
18 only for the point that the forest practice rules
19 do not obligate the landowner to plant any trees
20 here.

21 What we are showing here is the
22 additionality that gets created as the trees grow
23 and carbon tons are generated for this area.

24 This is an example of additionality for
25 a forest management project. This particular

1 graphic represents a large part of the California
2 ownerships today where forest land owners have
3 been managing pretty close to the forest practice
4 rules.

5 You see here at times "0", the landowner
6 may have a hundred thousand tons, and these are
7 just conceptual graphics, so the numbers don't
8 mean a lot, but the change is what is important
9 here.

10 The blue line here represents the
11 management under the forest practice rules. At
12 the time that they submit their project to the
13 registry, they are able to demonstrate through
14 their characterization of their project activities
15 that they are going to manage at a higher level of
16 stewardship, which may mean something like larger
17 water course buffers. It may mean longer rotation
18 periods, and it may mean just retaining more trees
19 at each harvest.

20 MS. PASSERO: That is the one thing to
21 add to this could be larger industrial forest
22 landowners who operate pretty close to the forest
23 practices act. The way their business structure
24 is set up, this would be a good example of how a
25 larger industrial forest manager would do a

1 project and sort of reflects what their baseline
2 may be and what would be additional.

3 MR. NICKERSON: This is another forest
4 management graphic to demonstrate additionality,
5 but it is for a different type of landowner. This
6 is a landowner that has been managing historically
7 their land at a higher level of stewardship than
8 the forest practice rules, which means they may
9 have longer rotation periods. They already have
10 wider stream buffers and those sorts of things.

11 At time "0", they have more carbon tons
12 than they would have had they managed their land
13 under the forest practice rules.

14 What we are demonstrating here is that
15 it takes some time to develop this additionality.
16 It is developed by characterizing their landscape
17 using the forest practice rules. It is probably
18 more characteristic of smaller land owners in the
19 state.

20 Lastly, we have an example of a
21 conservation project. This is a landowner who may
22 be in an area where land conversions are taking
23 place, say vineyards are coming in, and they can
24 demonstrate that they have a site specific
25 immediate threat.

1 What that means is that they can
2 characterize their landscape under the site
3 specific immediate threat, which would take
4 them -- this represents the forest practice rules
5 had they maintained their land under forest cover.

6 This demonstrates what happens when a
7 landowner converts to a vineyard or subdivision.
8 In this case we are saying a vineyard because you
9 can see that there is still some carbon value
10 there.

11 The green line here represents their
12 project activity, what they are proposing to do as
13 they move forward. The difference here in this
14 case is what they are able to report as
15 additional.

16 Did I miss anything?

17 MS. PASSERO: No, I think you got it.
18 Within the project protocol, permanence is handled
19 in a couple of ways. Pursuant to SB 812 project
20 areas are required to be secured with a perpetual
21 easement, which dedicates the land to permanent
22 forest use. In this sense, permanence is used in
23 terms of the land base and securing it and
24 protecting it against conversion to another use.

25 There is also a definition of permanence

1 that relates to greenhouse gas reductions.
2 Permanence or duration would probably would be a
3 more appropriate term, and that refers to how long
4 would these carbon stocks, additional carbon
5 stocks, be stored within a forest area. The way
6 that the registry addresses this is through the
7 annual reporting.

8 If you were to accrue additional stocks
9 through your forest project, the year after year
10 reporting of those carbon stocks would indicate
11 the permanence or the duration of those carbon
12 stocks.

13 Let's say against the baseline, I have
14 50 additional tons of carbon, and I am reporting
15 the 50 additional tons year after year
16 consistently. Let's say I do that for ten years,
17 that would mean that the duration of those
18 additional carbon stocks are ten years.

19 It doesn't necessarily mean that they
20 are permanent in perpetuity, but it does provide
21 the transparent information to let you know then
22 the duration of those additional carbon stocks or
23 what may be greenhouse gas reductions.

24 An outside entity or regulatory system
25 could then make, whenever that system may be in

1 place, could make a determination of what they
2 would deem to be permanent. Is it a ton of carbon
3 that is stored for a hundred years? If that is
4 the case, and someone demonstrates that consistent
5 amount over a 100 year period, then perhaps that
6 would be deemed permanent. Who knows, but
7 otherwise, the duration is captured through the
8 annual reporting in the registry.

9 Leakage refers to greenhouse gas
10 emissions that may result due to the project
11 activity. They are sort of unintended
12 consequences, and in some cases, maybe intended
13 that have the affect of mitigating or offsetting
14 the greenhouse reduction or benefits that are
15 produced by the project.

16 There are several definitions or
17 classifications out there. We have used a
18 classifications of activity shifting leakage and
19 market leakage. I'm not sure if those terms will
20 actually stick over time or not. There may be
21 some overlap in certain times with market leakage
22 and activity shifting leakage, but those are the
23 classifications we are using at least at this
24 point.

25 Activity shifting leakage refers to the

1 transfer of activities that were taking place
2 within the project area to outside of those
3 project activities. As a result, the transfer of
4 those project activities outside of the project
5 boundaries result in greenhouse gas emissions that
6 mitigate the benefits within the project.

7 What one would be required to do within
8 the project protocol would be to do an initial
9 assessment at the beginning of the project to
10 assess how I guess leaky the project may be as it
11 relates to activity shifting leakage.

12 They also have to do an on-going
13 monitoring report they would submit to the
14 registry about this. In turn, also, the third
15 party certifier would check these annual reports,
16 and they would also check public documents to see
17 if any activity shifting leakage has occurred.

18 I'll give you an example of activity
19 shifting leakage. If I am a forest entity and I
20 have 10,000 acres of forest land and I decide to
21 do a project perhaps on 2,000 acres, and what I
22 decide to do within the project area is to limit
23 my harvest, but then I make up for that limited
24 harvest by harvesting elsewhere in my entity.

25 Really what I've done, is I've really offset the

1 benefits that I achieved in the project area.

2 The certifier could check public
3 documents in California when you are going to do a
4 harvest, you do give notice of these, so the
5 certifier could check to see if in fact any
6 unintended or unanticipated harvest occurred in
7 the entity area.

8 I should also mention that this is also
9 an additional benefit of reporting at the entity
10 level, particularly if you choose to do a baseline
11 because a certifier could check this as well. If
12 at the time I entered the registry, if I'm an
13 entity and I do a projection of my baseline, and I
14 also do the annual reporting, the annual reporting
15 acts as sort of a change detection against
16 whatever the projection was.

17 If that annual reporting falls below
18 what I had established as my baseline, that
19 becomes a flag to the certifier or any external
20 party that this may be leakage. It may not be
21 leakage, it may be the result of a natural
22 disaster, or it may be due to some other set of
23 circumstances, but at least it becomes a piece of
24 transparent information that external systems
25 could use when they value the reported greenhouse

1 gas reductions by this particular entity.

2 There are a couple of areas where this
3 issue is addressed within the project protocol.

4 Market leakage I mentioned before, but
5 this does refer to sort of the limitation of a
6 product produced as a result of the project
7 activity. I don't intend to keep picking on
8 forest management, it is just an easy example to
9 use, but this does also happen with other project
10 types as well.

11 A product could be a wood product, that
12 would be produced within the project area, but if
13 you are harvesting less, you are producing less
14 wood products, therefore, you are shifting
15 consumer demand or demand elsewhere and maybe some
16 other external party then increases its
17 production.

18 It is a difficult area to assess. There
19 is some emerging information on this, but we did
20 try to walk the fine line as far as making a
21 determination of what we can ask a participant at
22 this point to do given the current information
23 that is out there on market leakage and some of
24 the difficulties there are in assessing this.

25 It is strongly encouraged in the

1 protocols, but is not required at this time. So,
2 we provide information in the protocol in the
3 appendix for them to, if they wish to undertake
4 it, they are able to do so.

5 Other affects that are similar to
6 leakage, but they are not quite leakage. Those
7 are called up stream or down stream effects of the
8 project. These could be positive or negative. I
9 should note, that is, a downstream -- I'll give an
10 example of a downstream effect, and we will use
11 forest management again. This is a positive one
12 where if you undertake a project and you are
13 harvesting less, it may very well result in less
14 use of equipment because you are not harvesting as
15 much, so you are not using as much equipment,
16 which then in turn may mean less fossil fuel
17 combustion released or greenhouse released due to
18 fossil fuel combustion which would be a positive
19 downstream effect from the project.

20 Other -- what a project participant is
21 required to do then is to identify the types of
22 upstream or downstream effects that may be related
23 to their project and certainly the ones that are
24 on site could be identified within the entity
25 level reporting as they relate to non-biological

1 emissions because through the general reporting
2 protocol, you will be reporting year to year your
3 non-biological emissions.

4 The two combined, the identification of
5 the upstream or downstream effects in conjunction
6 with your entity level reporting, if there happens
7 to be a change, the information is transparent to
8 allow again an external user to make the
9 assessment of whether or not they think it is
10 directly related to the project activity.

11 It is worth mentioning a few of the
12 quantification elements of the project protocol.
13 Much of it is very similar to what is provided in
14 entity level reporting, so I won't repeat that,
15 but there are a couple of differences.

16 There is a higher confidence standard.
17 A higher confidence in your estimates is required
18 at the project level, since this is where we would
19 be or a participant would be reporting greenhouse
20 gas reductions.

21 We also have a table where there are
22 deductions that are based on the confidence in the
23 estimates. The idea behind this is to provide for
24 a flexible approach, but also to encourage better
25 precision and accuracy.

1 If you have better precision and
2 accuracy, you can have a greater level of
3 confidence in your estimates, and then you would
4 deduct less. At the same time, if you have lower
5 confidence in your estimates, then you would have
6 a higher deduction.

7 As I mentioned earlier, the greenhouse
8 gas reductions are eligible at the project level
9 reporting and using sort of a stock change
10 accounting approach then, reductions would be
11 deemed if you have an increase in carbon stocks
12 over time, that increase would be considered a
13 reduction.

14 We have the Certification Protocols that
15 are related both to entity level reporting as well
16 as project level reporting. This is to provide
17 guidance to third party certification, which is a
18 requirement of the registry. The information is
19 guidance to the certifier for how to conduct
20 standardized and accurate assessment of the
21 reported information of the forest entity.

22 This certainly supports the credibility
23 of what is reported to the registry. I think what
24 is different, a notable difference from the
25 existing certification guidance, is that

1 certifiers for forest projects and any level of
2 reporting must include a registered professional
3 forester.

4 There are many requirements within the
5 certification or many components in the
6 certification guidance. I will highlight a few.
7 The certifier will be doing direct sampling of the
8 sample plots that the forest entity has set up.
9 This would occur over five year intervals with the
10 certifier doing the sampling at the beginning of
11 that period and at the end of that five year
12 period.

13 They will also be checking the annual
14 monitoring reports that are submitted by the
15 participant, and these were sort of the change
16 detection reports that I had referred to earlier.
17 They will also assess the methodologies,
18 estimations, models, and calculations that are
19 developed and used by the participant.

20 There is a requirement that any reported
21 data must be free of material on the statements,
22 that means that the results of the direct sampling
23 must be within 15 percent of the certifiers
24 results.

25 That is the conclusion of the

1 presentation. There is certainly a lot more
2 information contained in those protocols, but
3 those are the major points.

4 MODERATOR BROWN: I was going to suggest
5 first that we -- well, we have two options here as
6 I see it. We can take specific comments on
7 sections of the protocol and facilitate public
8 discussion; Jeff Wilson of our staff has prepared
9 these workshop questions which really go section
10 by section through the protocols.

11 Another option would be to allow folks,
12 including those on the phone, to provide general
13 comments on the totality of the forestry
14 protocols. I think we have two options.
15 Michelle, do you have a preference on how to
16 proceed with the public discussion or Jeff?

17 MS. PASSERO: I think if people have
18 comments, that would certainly be helpful. I'm
19 sure those that have already read through the
20 protocols want to or have a burning desire to
21 provide feedback outside of those questions, that
22 may be helpful in --

23 MODERATOR BROWN: Should we ask the
24 people on the phone to first provide any comment
25 or identify themselves?

1 MS. WITTENBERG: Shouldn't we have
2 questions first for anything that Michelle said?

3 MODERATOR BROWN: Sure. I don't hear
4 anyone on the phone.

5 MS. GREENHAUGH: Yes, this is Suzie
6 Greenhaugh from the World Resources Institute.
7 Would you like us to sort of put (indiscernible)
8 comments, and then that sort of open for general
9 discussion. Is that what you are asking?

10 MODERATOR BROWN: Yes. Do you first
11 have questions for Michelle Passero?

12 MS. GREENHAUGH: No, not really.

13 COURT REPORTER: Can she identify
14 herself please?

15 MODERATOR BROWN: Can you please repeat
16 your name again for the record? We didn't pick it
17 up the first time.

18 MS. BROWN: Suzie Greenhaugh from the
19 World Resources Institute.

20 MODERATOR BROWN: Is that Suzie
21 Greenhaugh?

22 MS. GREENHAUGH: Yes, that's close
23 enough.

24 MODERATOR BROWN: Susan Greenhaugh with
25 the World Resources Institute. Did you have

1 questions for Michelle?

2 MS. GREENHAUGH: No, I don't.

3 MODERATOR BROWN: Does anyone else have
4 questions for Michelle before we open the floor to
5 public comment.

6 MR. ANDRASKI: This is Ken Andraski from
7 the Environmental Protection Agency on the phone.

8 MODERATOR BROWN: Yes, sir.

9 MR. ANDRASKI: I guess I have a
10 question. I was interested -- I do apologize for
11 not having studied the redraft, although I did
12 read the previous version and participated in the
13 expert workshop. I am interested in leakage.
14 There has of course been a lot of discussion of
15 it. I know it is very tough to get at.

16 It interests me that the registry on the
17 Forest Protocols are still not able or do not
18 require addressing market leakage when they focus
19 on protection as a major activity to be reported
20 and registered and certified in the registry.

21 Some of the work, as Michelle and others
22 know, to date suggest that protection, especially
23 of old growth forests on commercial forest stands
24 that produce commercial wood products, have a very
25 high level leakage in the sense that if you

1 withdraw 100 units of redwood or of doug fir or
2 some other species from the market, then somewhere
3 else is likely to come on to the market if demand
4 remains the same.

5 I am wondering if you can give us any
6 further thought about whether there is debate
7 within the registry process to try to address this
8 issue since it seems critical for the
9 environmental credibility of including protection
10 as an activity.

11 MODERATOR BROWN: I guess I would call
12 upon a member of the work group to respond.
13 Michelle, would that be you or Doug?

14 MS. PASSERO: Yes, sure. I guess I
15 should just state up front that -- I think this
16 was mentioned early on -- hopefully people can
17 hear me. I think Diane Wittenberg had mentioned
18 this as well, that these are living documents. I
19 think that as we progress and get more information
20 and learn, that these protocols will be improved
21 or edited or changed over time.

22 One of the difficulties with market
23 leakage, and again this also refers back to the
24 balance that we are trying to walk with, trying to
25 get participation in the registry while also not

1 coming up with so many requirements that would
2 discourage participation. With market leakage, I
3 certainly recognize that there are some good
4 efforts to identify it and quantify it, but there
5 are still elements out there for instance with
6 showing that -- and this relates to causation,
7 that the project activity directly causes market
8 leakage.

9 Certainly you can make the assumption
10 that a projectivity may cause a certain amount of
11 market leakage, but at the same time, there are so
12 many other factors out there that influence
13 markets, consumer and demand, whether those are
14 regulations, governmental influences, changes in
15 governments. So, the thought was to explain what
16 market leakage is, encouraging people to do that
17 but not require at this time. There is even I
18 mentioned that in trying to even come up with a
19 definition and create a distinction between types
20 of leakage, when we are talking about activity
21 shifting leakage or market leakage, we still need
22 to make sure that is how we are going to classify
23 it as well because at certain times, there may be
24 some overlap between activity shifting leakage
25 and/or market leakage.

1 To ask a participant to do this when
2 these are not yet set in stone as far as
3 clarification as asked them to take on additional
4 responsibility and additional expense in doing it
5 when it may actually change down the road. So,
6 there are a couple of reasons for it, and it is
7 not to say that market leakage is not at issue,
8 but it is something that I think that we are going
9 to work on over time.

10 Certainly I think just generally
11 speaking with leakage, it is a big issue, and it
12 even transcends just project level reporting where
13 any time we do have a boundary, we do have a
14 leakage issue, and it does call for at a greater
15 level a coordinated effort for the development of
16 more registries or more systems that really
17 attempt to monitor this type of activity.

18 MR. WICKIZER: Michelle, may I add to
19 that too?

20 MS. PASSERO: Sure.

21 MR. WICKIZER: Doug Wickizer, Department
22 of Forestry and Acquired Protection and work group
23 member.

24 There is a couple of other things that
25 we considered in that discussion as well. One is

1 that we have a limiting factor. That limiting
2 factor is the statutes. The statutes in this case
3 we do not register, as Michelle indicated early in
4 the presentation, any growth or reduction in
5 emissions outside of the California boundaries.

6 The quantities that we are registering,
7 both at the entity and protocol level, are within
8 California. That type of leakage Mr. Andraski
9 referenced is the type that would be shifted to
10 outside of the California boundaries.

11 For us, that is very difficult dealing
12 in the framework that we are dealing with. The
13 best way that we could find to deal with that was
14 to deal with in on a case by case basis. Both
15 types of leakage are going to have different
16 causes and different sources.

17 First you have to be able to attribute
18 it to the activity itself and meaning the project
19 would have had to have been shown to be the cause
20 of that market shift. That may or may not be the
21 case on an individual basis. That puts us into a
22 position of having to look at that on set of
23 individual facts, ergo we chose to do the idea of
24 flagging the issue, and then dealing with that
25 concept of on an individual basis.

1 MS. PASSERO: The only other thing,
2 sorry to interrupt, to add is that certainly
3 external organizations -- people may use the
4 registry, and we do put language in the protocols
5 that external programs may ask you in some form,
6 some way or form, to account for it. The note is
7 there and provided for information to a
8 participant. If they decide to be a part of
9 another regulatory system, that in fact, there may
10 be some deduction made for it.

11 MODERATOR BROWN: Another question. Can
12 you come to the microphone, please?

13 MR. COLLINS: Yeah, I'm Terry Collins
14 from Collins Pine Company. I know this issue of
15 market issue -- I mean I can appreciate the fact
16 of the complexity of it and yet it does seem like
17 a really important issue especially when
18 California is a state that imports so many
19 resources. I sort of see a problem with the fact,
20 I guess, if apparently if we don't want to record
21 leakage that occurs outside of the state, and yet
22 that seems like a pretty big issue in this state.

23 I don't know if there is any way that
24 something could be developed whereby you could --
25 I mean, if we know that 40 percent of the softwood

1 lumber comes into this country from other
2 countries, then it is pretty certain that any
3 lumber that is not produced locally is pretty much
4 going to result in an influx of lumber from
5 somewhere else. I just wonder if there is any way
6 of coming up with just some kind of a guideline or
7 average that would address that.

8 MR. FIELDLER: This is Jeff Fieldler
9 from NRDC on the phone. Is this a good time to
10 hop in?

11 MODERATOR BROWN: Sure, go ahead.

12 MR. FIELDLER: For the record, it is
13 Jeff Fieldler with Natural Resources Defense
14 Council. I just wanted to add my two cents on
15 leakage. I guess taking a step back to the big
16 picture. My understanding of the purpose of
17 registry on the project side or one of the
18 purposes, to put the reporting entities instead of
19 positions under any regulatory (inaudible)
20 possible, I would agree there is a lot of what I
21 think Andraski said like a serious gap in
22 (indiscernible) market leakage altogether be
23 optional and have any quantification activity
24 (inaudible) and go along with the comments --

25 MS. PASSERO: Jeff, you are breaking up

1 a little bit. I don't know if that is the phone
2 you are using.

3 MR. COLLINS: Is this better?

4 MS. PASSERO: Yes.

5 MR. COLLINS: I was just saying that I
6 think that it really shortchanges the reporting
7 companies who are entering into the California
8 registry if they are not given any guidance on how
9 to deal with leakage. As I read the protocol
10 market leakage, even thinking about it is
11 optional, and quantifying activity shifting for
12 market leakage is optional.

13 I go along with some of the previous
14 comments that there really should be some attempt
15 at giving reporters guidance. I think that could
16 actually be very influential in future systems
17 rather than kind of leaving reporters you know
18 hanging without any future guidance.

19 I fully appreciate the fact that there
20 aren't off the shelf methodologies right now, but
21 you know, frankly I think the same could be said
22 of additionality and baseline approaches. My view
23 is the job of the registry or it would be a great
24 job if they took it on, to try to provide
25 additional clarity.

1 Moving ahead here. A couple of specific
2 technical points, I'm not sure what the basis is
3 for the previous statement that the majority of
4 market leakage or leakage would occur outside the
5 State of California. I'm just not sure what that
6 evidence of that would be. I think some of it
7 would certainly occur within California.

8 The other point is in my view, the
9 entity-wide reporting doesn't really capture
10 leakage. I mean, yes, if some company is
11 conducting a huge amount of activity shifting,
12 that might be detectable, but because there is no
13 actual process where that kind of spot check
14 occurs, I mean there is no adjustment that would
15 get made on a project report based on any entity-
16 wide data. I don't think it is totally correct
17 that leakage is addressed in part by entity-wide
18 reporting.

19 MS. PASSERO: I guess I just on the last
20 piece, Jeff, it does at the entity level reporting
21 where you do annual reporting, if your carbon
22 stocks go down, that would be a flag to the
23 certifier to ask questions of why the carbon
24 stocks went down.

25 Entities are encouraged to also do an

1 entity-wide baseline projection so then your
2 annual reporting, if in fact, is consistent with
3 your projection, then it provides additional
4 comfort that your project, at least on-site within
5 your entity boundaries, may not be causing
6 activity shifting leakage on site.

7 But if there is a deviation or a change
8 in your annual reporting where the stocks go down,
9 it does become a flag for the certifier.

10 Certifiers are giving guidance to check for that.
11 Then that information would be transparent to the
12 public and to external organizations to make a
13 determination on whether that leakage was in fact
14 caused by the project activity or if there was
15 something else that may have caused that decrease
16 in stock that is completely unrelated to the
17 project activity. The entity would be providing
18 an explanation as to why there was a change in the
19 entity-wide stocks.

20 MR. COLLINS: I guess perhaps if that
21 flag is so easy to notice and it is easy to figure
22 that out on the part of the public, maybe the
23 registry should just be doing that anyway.

24 MS. PASSERO: It is actually the cause.
25 The causation issue and linking the project

1 activity to the change in the stocks where I think
2 the greatest difficulty comes in. So, we could
3 try a strict liability approach and say, if there
4 is a change in your entity-wide stocks without any
5 causation, we are going to deem it leakage. That
6 would not necessarily be fair or give the
7 opportunity to the entity to provide the
8 explanation of why it has happened.

9 MR. WICKIZER: Doug Wickizer, Department
10 of Forestry, Forestry Work Group. We did wrestle
11 with some of the questions both Mr. Collins and
12 Mr. Fieldler raised, and we are noting those.

13 If we can receive any specific guidance
14 items that we could include under those, again, as
15 an example of how to quantify that. I don't think
16 there is a methodology that could be so well
17 grounded at this point that it could be accepted
18 as a standard, but I think we could include some
19 examples of how such a methodology could be
20 developed, again, on a site-specific basis.

21 I think that would be helpful if anyone
22 would be willing to step forward with that. We
23 would be happy to include it.

24 With respect to -- we did discuss the
25 concept of not only the 40 percent of soft wood

1 Mr. Collins raised, but the fact that the 76
2 percent of the soft woods in California total are
3 imports.

4 Again, we have the constraints of the
5 project that we are handed to deal with, and that
6 is within the confines of SB 812. That does set a
7 limit for us. The questions you are referring to
8 could be viewed more as something to be addressed
9 at the level of Mr. Andraski's agency at the
10 federal level.

11 Something for us, if they would be
12 willing to step forward in the systems that they
13 are developing at this time and provide the states
14 some guidelines, even broad on how to put some
15 elemetrics together for us to apply at a more
16 local level.

17 Again, that will be somewhat market
18 driven, but with respect to the guidelines that we
19 are producing, we have a world. Our world is the
20 California borders.

21 MS. GREENHOUSE: This is Suzie
22 Greenhaugh at World Resources Institute. I tend
23 to agree with the last speaker. I think that the
24 registry should try and get the developers to try
25 to quantify market leakage is actually something

1 that is beyond what they are capable of doing, and
2 that is the best way to move forward perhaps in
3 terms of default factors or getting some other
4 external or federal agency to actual provide those
5 figures.

6 We have looked at this in detail, and we
7 haven't come up with or found anything that are
8 usable for a standard as well.

9 In terms of the activity shifting, I
10 would have to agree with Jeff, that even though
11 just encouraging developers just to set your
12 activity shifting is probably not enough when they
13 could probably do a little bit more than that.

14 MR. ANDRASKI: This is Ken Andraski from
15 the EPA. Could I reply for a second?

16 MODERATOR BROWN: Go ahead.

17 MR. ANDRASKI: A couple of quick things.
18 One is I will make an effort to try to make sure
19 that you have as much information as I'm aware of
20 on analytic work going on on leakage to help you
21 work this through. I have some other things I
22 could share with you in that regard.

23 Leakage by definition is not a site-
24 specific phenomenon, so the more you continue to
25 think of it as something you want to see a direct

1 cause of effect on site, we are never going to
2 solve the problem or the issue in that way. We
3 have to be thinking of some other approaches.

4 I like the idea of some kind of look up
5 table that takes model results from trade or other
6 models and says, here are the kinds of effects
7 that we are seeing.

8 A couple of other quick thoughts. One
9 is if you think that you're protocols if one of
10 the goals is to influence other programs, then the
11 more you push the envelope here, the more
12 influence you are going to have elsewhere.

13 That doesn't mean -- I would like to
14 suggest another thought which is you may want to
15 think about the difference between requiring for
16 the moment somehow adjusting the number of tons
17 reported as a result of including leakage or
18 permanence or other issues as opposed to
19 encouraging the reporting of as much data as
20 possible that would allow someone to do that as
21 methods evolve.

22 So, you may want to try to push the
23 envelope when asking for information so that this
24 can be looked at more seriously.

25 MS. HAWES: This is Ellen. Is this a

1 good time to jump in?

2 MODERATOR BROWN: Go ahead.

3 MS. HAWES: Ellen Hawes from the Nature
4 Conservancy. We are part of the work group as
5 well. Our thoughts on market leakage is that we
6 really wanted this to be something that the
7 registry could maybe come up with guidance of.

8 We had discussed it at some earlier
9 point coming up with look-up tables, and kind of
10 felt that within the time limits, we didn't really
11 have enough data for California specifically to
12 come up with a good and credible look-up table.

13 The thought that it should be something
14 that would be good if the registry could come up
15 with guidelines or a table rather than having it
16 be quantified on a project by project basis
17 because we thought that might be a little
18 repetitive for the project developers. You know,
19 haven't had time or data to come with an actual
20 look-up table at this point.

21 I was wondering what your thoughts were
22 on that and the types of data that might be
23 available for the registry to do that.

24 MR. WILSON: Jeff Wilson, the California
25 Energy Commission. I just want to point out that

1 there are models available. There is a report
2 entitled "Estimating Leakage from Forest Carbon
3 Sequestration Projects" and is put out by RTI
4 International. I haven't really had a chance to
5 look at it closely, but it describes an economic
6 sector level optimization model. It derives
7 empirical estimates for leakage in different
8 sectors. It ranges from less than 10 percent to
9 over 90 percent in the various activities in
10 regions. This would be a good starting point to
11 actually quantify leakage.

12 MODERATOR BROWN: Thank you, Jeff. Did
13 you hear that on the phone?

14 MR. ANDRASKI: This is Ken Andraski
15 again. Actually, I am the funder of that work.
16 One thing that we could do is, we could provide a
17 briefing in some way for you on that work by the
18 people involved to help explain what they know,
19 what they don't know, what the methods are, what
20 the limits of the analysis are, etc., if that
21 would help your thinking progress.

22 MR. WILSON: Yes.

23 MODERATOR BROWN: Doug or Michelle, good
24 idea?

25 MS. PASSERO: Sure.

1 MODERATOR BROWN: Thank you for the
2 offer.

3 MR. ANDRASKI: Okay.

4 MODERATOR BROWN: While we are on the
5 subject of leakage, are there other public
6 comments on that subject? Maury, did you want to
7 make a comment?

8 MR. ROOS: Not on leakage.

9 MODERATOR BROWN: Oh, but in general.
10 Okay. I think this gentleman was next. Should we
11 move on from this subject to another subject.

12 MR. NICKERSON: Can I throw in a
13 comment?

14 MODERATOR BROWN: Go ahead.

15 MR. NICKERSON: This is John Nickerson
16 with Mendocino Redwood Company. Michelle
17 mentioned that the entity reporting is optional --
18 not the entity reporting, but the projection of an
19 entity baseline is optional.

20 I just want to put this a little bit in
21 context that all landowners in California with
22 50,000 acres or greater have generally submitted a
23 long-term management plan that would serve as that
24 entity baseline to which then these types of
25 leakage comparisons could be made.

1 Another sort of big picture idea is I
2 think one of the goals of this whole project here
3 is to keep forests in forest cover. Not only
4 forests, but working forests. I think if we are
5 successful in that, that should be a benefit to
6 market leakage.

7 MODERATOR BROWN: Thank you, John. I
8 think this gentleman here had raised his hand, and
9 then Bob you are next. Do you want to make a
10 comment?

11 MR. JONES: Yes, thank you very much.
12 My name is Don Justin Jones, and I am with COPEC.
13 It is good to hear your voice again, Ken. Perhaps
14 you can help me with what I am about to talk about
15 or raise.

16 I am concerned that we can't see the
17 carbon for the trees in that some of the option
18 carbon pools that are addressed in the protocol,
19 for example, herbaceous understorage and shrubs,
20 which the protocol say may be reported but not
21 certified, misses an opportunity here in
22 California and globally that has been addressed in
23 a category called "Salt Effected Soils and the
24 Restoration and Severely Degraded Lands".

25 I want to make the parties here aware of

1 three projects that we are working on where we are
2 not planting trees for carbon storage, but we are
3 using halophytes, which is are salt tolerant
4 plants.

5 We are looking at projects in Twenty-
6 Nine Palms, also the Owens Valley, there is the
7 forest or managed vegetation coverage of 30 square
8 miles where trees are not possible because of the
9 saline conditions of the soil.

10 Additionally, the salt and sea offers us
11 new opportunities for the exposure of over 77,000
12 acres of new land that will be exposed.

13 Carbon is one component of that overall
14 management scenario, as well as PM 10 suppression,
15 particular matter suppression is quite important,
16 particularly in California and areas where there
17 have been trees, but the existing conditions now
18 do no longer allow for reforestation or
19 afforestation for those.

20 We want to take up the offer of being
21 inclusive on a case by case method because we
22 believe American science can measure soil carbon
23 retention, can measure the growth, can measure the
24 mid-annual incremental growth. In fact, after
25 this, if it is appropriate, I would like to show

1 whoever is interested some work that we have done
2 in identifying the species, native species that
3 have a high salt tolerance and would be good
4 candidates.

5 The reason I bring it up is because we
6 look to the carbon as an additional form of
7 monetary contribution to these projects. We never
8 believed in any of the projects that we have
9 developed over the past fourteen years that CO 2
10 is enough to fund or fully fund a project. They
11 are always ancillary.

12 I want to make sure that we have an
13 opportunity to include these halophytes, if you
14 will, that whole family of restorative plants that
15 could be used and have a value particularly here
16 in California, but also have an application
17 globally.

18 If we are able to quantify and measure
19 these here in California, then I believe they can
20 be replicated in other places as diverse as Saudi
21 Arabia, the Gulf of Bashra, Libya. Once again, I
22 would like to see California science lead the way.

23 I was very happy to hear Director Tuttle
24 use the phrase "charismatic carbon" since we first
25 coined that phrase in a meeting with you three

1 years ago.

2 MS. TUTTLE: You were disappointed to
3 hear it again?

4 MR. NICKERSON: No, no, very very happy
5 to hear you say it.

6 MS. TUTTLE: Oh, all right.

7 MR. NICKERSON: With that long prologue,
8 I'm interested to hear comments about how we can
9 include other modalities for carbon fixation
10 beyond the trees.

11 MR. WICKIZER: May I take a first stab
12 at that, Michelle, and you can straighten me out.
13 I am Doug Wickizer, Department of Forestry, Forest
14 Member Work Group -- Forest Group Work Member.
15 Whatever.

16 When we were developing these, the
17 question of what natural forest management and
18 forest management and and those types of
19 terms meant. It was clear to us that in
20 California, forest is not necessarily restricted
21 to the soft wood conifer forest.

22 We had a guidance in there of 10 percent
23 canopy cover. That then would go back to the
24 definition of a natural forest which is of course
25 WHR types and native forests, native trees

1 specifically.

2 WHR is simply an arrangement and
3 distribution factor. The native species is in
4 fact would be the controlling factor with what you
5 are referring to, Mr. Jones. If the land and the
6 soils are capable of producing, for example,
7 restoration of riparian oak woodlands, not using
8 your example, but choosing another one, then that
9 certainly could be viewed under forest management
10 as a forest management project, albeit, there are
11 no forest practice rules that apply to those.

12 The forest practice rules apply to
13 timberland in the State of California,
14 specifically non-federal. That is lands that grow
15 what we refer to as Group A, but is listed as
16 normal commercial species for the state redwood
17 pines, those types of things. It has a stocking
18 standard for both before and after, so that is
19 covered under the rules.

20 These other projects would be looked at
21 in your original submission and screening. There
22 is a piece allowed in the protocols to submit
23 something to the registry for them to look at and
24 consider whether it does in fact fall within one
25 of those definitions of forest management or

1 reforestation or conservation. Some things have
2 to be case by case, just given the breadth of the
3 area we are dealing in.

4 With regard to soils, we looked at the
5 concept -- what drove us there on optional versus
6 required was changeover time. In most cases for
7 the timberlands in California, again, back to what
8 the rules would apply to in that instances, the
9 variation of soil content is minimal. It does not
10 prevent registering that material, and if at some
11 point the registry deems it, comes across these,
12 and the protocols grow, that may be adapted as a
13 required, but we had to have a starting point.

14 Michelle.

15 MS. PASSERO: I guess there's just a
16 couple of pieces just to add. The three projects
17 that we have come up with were driven by SB 812.
18 So, it is not to say that those are going to be
19 the only project types that the registry will ever
20 consider.

21 I think that over time, there would
22 likely be, and certainly Diane Wittenberg can
23 speak to this, that there would be other project
24 types coming in. So, we had, just in trying to
25 deal with the scope of our work and the time frame

1 that we are working within, trying to tackle
2 those, the ones that are at least listed, I
3 probably need to understand a little bit more
4 about the work that you are currently doing to see
5 where it may fit in into this scheme.

6 The optional versus required pools,
7 there are a couple of components. One is sort of
8 dealing with sort of existing registry policy
9 where if something is required, it is certified.
10 If it is optional, it is not certified. In an
11 attempt to create standardization, you know, we
12 had the set of the required pools, a set of
13 optional pools, and then we were also trying to
14 again sort of consider what other pools mostly
15 likely to change over time or the shorter
16 durations, and then also consider expense.

17 If we are going to require something,
18 then we have to realize that we are requiring a
19 certain expenditure of money and balancing that to
20 do the sampling, you know, and balancing that with
21 understanding that it is a voluntary program.

22 MS. WITTENBERG: This is Diane
23 Wittenberg with the California Registry. Although
24 we haven't talked about it, I think it is our
25 general idea that protocols will grow and add

1 types of projects. Certainly we have thought
2 about that in other venues.

3 With that said, I think that since this
4 was such a big bite, we probably need to digest
5 this and shake it down a little bit in practice
6 before we would add another typology.

7 Philosophically, we are not only not against it,
8 but we think it is probably a good idea to grow
9 the types.

10 MODERATOR BROWN: Okay, Mr. Jones.

11 MR. JONES: Just a quick question.

12 Robert Jones from the Ecolinx Foundation.

13 Michelle, wouldn't it be instructive to
14 look to the Kyoto Protocol regarding leakage in
15 more sort of holistic point of view, and what does
16 the Kyoto Protocol actually instruct us.

17 MS. PASSERO: I think that is certainly
18 something to look to. I think it also does
19 highlight though the level of the issue as well,
20 and that is for us to try and get a really good
21 grip on leakage, we do need to work at the higher
22 levels also to address this issue.

23 Again, I just want to reiterate that it
24 is not that these issues are foreclosed, but we
25 are also trying to walk the fine line of working

1 with the information that is out there and the
2 understanding maybe the expense of the
3 participation in the registry, and that it is
4 voluntary. We are asking these things,
5 commitments of people, to undertake certain
6 endeavors, so it is a balancing. Since it is a
7 living document, certainly over time as we get
8 more information I think that there will be added
9 and changes made.

10 MODERATOR BROWN: Okay, other comments
11 on leakage, or can we move on and ask Maury to
12 make a few comments?

13 (No response.)

14 MODERATOR BROWN: You have the floor
15 now, Maury.

16 MR. ROOS: I'm Maury Roos speaking as an
17 individual. A couple of questions, one of them is
18 what happens to the owner if the land burns? Does
19 he get all of his credits rolled back?

20 The second one is, I don't know why you
21 would exclude other ways of carbon accumulation,
22 such as the people who plant orchards and
23 vineyards. It seems to me a lot of urban trees
24 would qualify as well, urban forestry. It is a
25 little more complicated.

1 MS. PASSERO: I can answer, but I know
2 there are other work group people here who may
3 want to --

4 UNIDENTIFIED PERSON: You go ahead, and
5 we will add.

6 MS. PASSERO: -- answer. This is
7 something that I had intended to mention during
8 the presentation, but I think I forgot. That is
9 because our focus is on -- this addressed to what
10 happens if the land burns, and I'll answer sort of
11 specifically and broadly. We do a stock change
12 accounting approach and we have the required pools
13 as we just discussed, and we are measuring changes
14 in those carbon pools over time. A participant
15 would be reporting their total stocks from those
16 required pools from year to year.

17 If there were a major forest fire, a
18 natural disaster, a harvest, something that is
19 more anthropogenic, that would be recorded. Those
20 carbon pools are impacted. That would be
21 registered within the registry and accounted for.

22 I think your question also touches upon
23 another issue, and that is if you were to enter in
24 to a transaction with somebody and you had sold
25 some of those carbon stocks to that entity and

1 perhaps they used those as offsets, that would be
2 something that would be handled outside of the
3 registry. That would be perhaps in a purchase and
4 sell contract that you had with that particular
5 entity. In there the suggestion would be maybe to
6 safeguard yourself, retain a buffer, you know, do
7 not sell all of your additional carbon stocks that
8 you have.

9 Also you would have provisions perhaps
10 within your purchase and sell contract remedies
11 that would address this type of issue and perhaps
12 that would mean that you would have to go to the
13 market to purchase similar offsets, purchase or
14 rent until you are able to regain those carbon
15 stocks in your own land. Maybe there would be
16 some type of financial payment, restitution to pay
17 for that loss to the buyer. That is something
18 that you would work out with the buyer in a
19 contract.

20 Again, to orchards and vineyards, I
21 think that touches upon sort of similar issue we
22 were talking about before where we focus -- I
23 think the project type that you are raising are
24 certainly valuable ones, and they may have a
25 climate benefit. We just haven't gotten to those

1 project types yet, and that is something the
2 Registry may consider down the road.

3 Through SB 812, we had these particular
4 project types to focus on, and we had our work cut
5 out for us on that.

6 MR. WICKIZER: Doug Wickizer, Department
7 of Forestry and Fire Protection. Maury, with
8 regard to the urban forestry, that has been
9 something we have discussed at inner-agency level
10 frequently. You may remember -- in our view, one,
11 it isn't a natural forest, so it falls out in that
12 regard. Two, recognizing that it has its own
13 values.

14 Those can be reflected in some of the
15 other industry protocols that are coming up at
16 this time, specifically power. One of the major
17 benefits of an urban forest is the reduction of
18 use of energy produced by fossil fuels.

19 In that regard, some of that will be
20 reflected in some of the other industries. If
21 there are values left over that aren't addressed
22 as that discussion move forward, then we may want
23 to revisit that, and I'd leave that to Ms.
24 Wittenberg.

25 MS. WITTENBERG: There is a long list.

1 MR. ROOS: A lot of the trees are native
2 to some where in California, they are planted. It
3 might be a bit of encouragement to promote more
4 trees too like you say for energy reduction.

5 MR. WICKIZER: Agreed.

6 MODERATOR BROWN: Other comments from
7 people either on the phone. I guess we are
8 jumping around a little bit here. We have touched
9 on a number of specific topics with entity
10 reporting and baselines and leakage. Other
11 general comments?

12 MR. FIELDLER: This is Jeff Fieldler on
13 the phone again from NRDC, can I hop in with a
14 comment.

15 MODERATOR BROWN: All right, one comment
16 from Jeff. Go ahead.

17 MR. FIELDLER: I just wanted to touch on
18 a theme that I am hearing from a couple people. I
19 think it is a big picture comment that might not
20 come up in some of the detailed discussion later
21 on, which is particularly Michelle Passero just
22 mentioned that please remember this is a voluntary
23 program, and we need to keep what is being imposed
24 on reporters, you know, some what under control I
25 guess given that it is voluntary.

1 I am just trying to square that in my
2 own mind with some of the other introductory
3 comments saying that this California registry was
4 going to provide a really high level of
5 credibility for the people who engage it. In some
6 ways sort of a gold standard, moving ahead.

7 The thing that I have the utmost
8 sympathy for people trying to do forest carbon
9 projects when the carbon price in the U.S. is
10 basically zero, and I have the utmost sympathy for
11 people trying to craft voluntary programs with
12 their meager resources. I still think you are
13 going to need to figure out which of those goals
14 is more important. Are you more concerned about
15 increasing participation, or are you more
16 concerned with really having gold standard results
17 fitting in your registry at the end of the day.

18 I guess looking back at the ten years or
19 more experience with voluntary reporting and
20 voluntary programs, I feel time and again over the
21 last ten years or more, the mistake in my view has
22 been made to -- I bet you think cut corners, given
23 resource constraints and given the interest in
24 promoting participation levels. At the end of the
25 day, it has really hurt the programs. I've looked

1 for the 1605 federal registry as sort of a prime
2 example of that where there are fairly flexible
3 rules, very limited, basically non-existence
4 review by the EIA and DOE over what is being
5 reported.

6 At the end of the day, it really hasn't
7 served anyone's purposes. It hasn't served the
8 reporter's purposes, hasn't served the agency's
9 purposes, and I don't think it has really spurred
10 a lot of new projects.

11 I guess I sort of make a plea for the
12 California Registry to try to take a different
13 approach based on that sort of ten years of
14 experience and try to make a different trade off.
15 Again, with the utmost sympathy and understanding
16 of the realities you face, you know, really try to
17 think of yourself as a pre-cursor to you know what
18 people will need to do in regulatory programs, not
19 just as another voluntary program. Thanks.

20 MS. PASSERO: I guess one response --
21 and Jeff, I understand where you are coming from.
22 This is Michelle at PFT. First I would like to
23 say that I don't think you meant this, but I
24 believe that what we have developed can be
25 distinguished from the 1605 PB Program. I think

1 we have -- I don't want to get into a direct
2 comparison with the two, but I do think we have
3 pursued both the idea of rigor, but also, again,
4 it is a fine line we have to walk with the fact
5 that it is a voluntary program.

6 To try to get participation, get people
7 involved, so they are able to start to even
8 understand the concept of how they measure their
9 carbon, it is a bit of a daunting task for some
10 forest landowners who are not familiar with this.
11 So, it is a fine line to be walked, but I think
12 again, we have to realize that this is a living
13 document, and with time, and as we test these
14 protocols, they will only be improved.

15 I do think that they are achieving a
16 goal standard, and they will only get better.

17 MR. WICKIZER: Doug Wickizer, Department
18 of Forestry and Fire Protection. I think it is
19 worth re-stressing the point that Director Tuttle
20 made, and that is that the forest practice rules
21 in California, albeit not the end all/see all of
22 everything, they do set a fairly specific standard.

23 Those are quantifiable ages and
24 bacillary factors and site indexes, and things
25 that we can model with some certainty. We can

1 move forward with those as a base, which is quite
2 a bit higher than anybody else that I know of in
3 the nature, or for that matter, internationally,
4 as a productive base for their land.

5 That is the beginning point, and we go
6 from there and consider additionality. That to me
7 on its own adds a certain quality to those tons of
8 carbon that are in excess of that standard.

9 Darn it, I lost something else I had
10 there, but I think John might want to add to that
11 too.

12 MR. NICKERSON: The only thing I would
13 add is I agree that the Forest Practice Rules
14 already set a pretty high hurdle. It may be kind
15 of obscure to those that are not familiar with
16 them, but they do or they will result in forest
17 cover at a pretty high level on forest land,
18 unless of course they are converted.

19 The other thing I want to add is I think
20 what we have put in the protocols for landowners
21 in terms of what they need to measure sets a
22 pretty high standard as well. So, I was a little
23 unclear of what you might have been pointing at
24 there when you referred to where do we flip from
25 the goal standard.

1 MR. WICKIZER: I did think of at least
2 one piece of it that I wanted to add. When you
3 are dealing with the rules, you are not only
4 dealing with this sort of cultural standards. I
5 think you heard reference to riparian zones and
6 different wildlife species, those types of things,
7 water quality protection.

8 Those standards become part of our
9 rules. To minimize and reduce the impacts on any
10 of those values below a level of significance is
11 one of the end products. By reaching that end
12 product, you in essence end up with a higher
13 quality forest management standard than you would
14 for simply corn row forestry.

15 MR. QUINN: I'd like to ask a question.

16 MODERATOR BROWN: Go ahead, sir.

17 MR. QUINN: My name is Patrick Quinn,
18 and I'm a principle investigator. I would like to
19 ask specifically where does the Bureau of Land
20 Management -- every time I hear the word "forestry
21 management" I always think of the Bureau of Land
22 Management. What are we doing in sharing their
23 satellite facilities, and what type of
24 spectrometer sampling are they now doing through
25 their Quicksilver 25 Program?

1 If I am sitting here as a pseudo-
2 scientist, and I am thinking about
3 instrumentation, I haven't heard anything
4 practical from how I would conduct an
5 investigation of carbon sampling from the Bureau
6 of Land Management perspective.

7 If I am an instrumentation specialist,
8 which I am allegedly supposed to be, I'm asking
9 where does the sharing with the -- if you are
10 asking how you get acquainted with the public,
11 then the Bureau of Land Management has some of
12 these facilities available. Why isn't it we
13 aren't thinking about making the public aware that
14 the Bureau of Land Management does have some of
15 these communication features that the State of
16 California is probably using right now at some
17 state level?

18 I am sure the climate of the registry in
19 Los Angeles is fully aware of this, but I haven't
20 seen or heard one word about it whatsoever.

21 MR. WICKIZER: Mr. Quinn, Doug Wickizer,
22 Department of --

23 MR. QUINN: I can't hear you, sir.

24 MR. WICKIZER: I'm sorry. Doug
25 Wickizer, Department of Forestry and Fire

1 Protection. That is a very valid and on-point
2 comment, albeit somewhat outside of what the
3 protocols are doing --

4 MR. QUINN: It's always outside, that is
5 why I am here.

6 MR. WICKIZER: However, to try to give
7 you a partial answer to your question is that the
8 Department of Forestry and Fire Protection, the
9 U.S. Forest Service work tightly together with
10 regards to their remote sensing lab. We work
11 tightly together in a program we have called The
12 Fire and Resources Assessment Program.

13 A lot of the type of data that you are
14 referring to there is included in other data
15 information that we put out, for example, now in
16 Southern California, we are developing inventories
17 of the mortality from the insect issues.

18 In developing those inventories, we are
19 certainly involved with not only RSL, but
20 (Indiscernible) and other companies that use that
21 level of sophistication you're referring to in
22 that type of high level resolution.

23 MR. QUINN: Precisely why I brought the
24 question up.

25 MR. WICKIZER: It is not that it is not

1 being used, it is just not timely in regard to our
2 on the ground forestry protocols. At a higher
3 level, with regard to our department, we have been
4 working very closely with the Energy Commission
5 and those people who are state-of-the-art in this
6 area of inventories on carbons and have developed
7 some reports that the Energy Commission has or
8 will have available publicly with regard to state-
9 wide supply curves, state-wide baselines, and
10 demonstration projects on both (indiscernible) and
11 demonstrations straight forest, and the University
12 of California Blodgett Experimental Forest.
13 That is a separate project.

14 MR. QUINN: I hear Michelle make these
15 comments about the public awareness, and I've
16 watched some of these public groups that have
17 called upon people like myself to assist them over
18 the last 20 to 25 years, and I see them come up
19 and put forth all this effort and then they have
20 no idea of what you and I have just discussed, and
21 they fade away into the blue because the
22 bureaucracy that exists is just too humongous for
23 them to even have any imagination as to how it
24 perpetuates itself.

25 I am sitting here saying I am 81 years

1 of age, and I have survived this perpetuation of
2 bureaucracies for 81 years, and now I am hearing
3 it being reinvented, and the public is being left
4 out again because of their ignorance. I hate to
5 use that word, but it is the truth. They don't
6 know how the government functions, so how do they
7 protect themselves?

8 I listen to this excuse, which to me is
9 an excuse because the public is not educated to
10 take advantage of just what you and I are
11 discussing.

12 MODERATOR BROWN: One more comment, then
13 I did want to allow --

14 MR. JONES: This is Don Justin Jones
15 again. I'd like to assure you that my experience
16 has been -- and we filed for 1605 B in 1993 for
17 the PG & E. We filed for Edison Electric
18 Institute, Utili-tree Forestry Project in '96. We
19 filed for the USIGI and got host country
20 acceptance in the first project in Asia in 1998.

21 There has been a continuum of knowledge
22 that every successor program builds on from those
23 that came before. If you did a literature search
24 in 1990 when we began, you would see that there
25 were only two or three, maybe a handful of people,

1 Ken will recall this, that were actually able to
2 measure below ground soil carbon.

3 Everyone then was focused on the
4 Weyerhaeuser School of Forestry, how much usable
5 timber is there above breast height. It is only
6 by building on the continuum of knowledge of the
7 confidence of programs that have gone before that
8 we can make statements like why California should
9 be the goal standard because we stand on the
10 experience of other people. For example, in our
11 own research, we actually had to have people go to
12 Borneo, dig up 255 different species of trees,
13 take them to drying, dry them all out, weigh them
14 over time, and publish for peer review so that
15 later on folks can fastly look them up in tables
16 that tell you how much a dipterocarp will
17 sequester over a period of time.

18 So, I am confident what I have seen here
19 in the protocol to date, even though I was
20 somewhat not critical but observing that there are
21 some other areas for inclusion, I think what we
22 have here is a really good document. I think the
23 best way, the proof of the pudding is will people
24 vote with their feet and with their dogs.

25 Will they bring projects forward to

1 register them, with what degree of confidence will
2 they continue to build on those. We have had some
3 setbacks. 1605 B had a 30 percent error, self
4 admitted.

5 The Edison Electric Institute, 40
6 companies put their money in, and they haven't
7 invested a nickel in the last five years

8 MR. QUINN: Yes, tell me about it.

9 MR. JONES: -- in continuing that.

10 The USIGI, because of national policies,
11 has virtually gone catatonic, but that doesn't
12 mean that the underlying body of knowledge that
13 was generated from those programs is not available
14 to us.

15 MR. QUINN: I know the layer -- if I may
16 respond. I was directly associated with the
17 Edison Electrical Institute, and I gave up in
18 1996.

19 MODERATOR BROWN: I don't think we are
20 here to solve all of those problems, but we do
21 appreciate your comments. They are somewhat
22 beyond the scope of this workshop.

23 MR. QUINN: Layer upon layer.

24 MODERATOR BROWN: Again, thank you. I'd
25 like to give the gentleman from Weyerhaeuser an

1 opportunity to speak.

2 MR. PROLMAN: Yes, thank you. I am Bob
3 Prolman with Weyerhaeuser Company. I have just
4 two observations and one short question.

5 The first observation is I want to
6 acknowledge and commend the efforts of the
7 entities here today, the Registry and state
8 agencies, for taking on this initiative. It is in
9 my view the most controversial element of the
10 global and local climate issue, the whole forestry
11 piece. It is a quick sand pit to say the least.
12 It has been a very difficult one to take on, so
13 the second point I would make is to say thank you
14 for helping to catalyze and focus the attention of
15 our industry on this issue and a level of
16 intensity and effort that I think has been absent
17 to some extent in the past.

18 With that, I will just observe that we
19 and others in the industry will be making more
20 formal written comments by your deadline, so I
21 will restrict myself to one question at this
22 point.

23 Earlier in the presentation when the
24 subject of additionality was raised, could you
25 clarify for me how gains and losses in carbon

1 stocks on conservation zones of any kind are
2 addressed or not included or not? The two
3 categories in my mind would be those that would be
4 happening under the forest practices rules and
5 that in the conversation zones that might be added
6 to beyond the conservation practices requirements.

7 It comes in this context. When I look
8 at the simple model of a managed forest, over time
9 steady stayed in effect in a good sustainable
10 operation should never harvest below the base
11 stock, should be only harvesting the increment.
12 That is always harvested, and the only other gain
13 that would be occurring or lost, depending on how
14 it is managed, would be in conservation zones.

15 One of the subjects that has come up in
16 the national discussion with the USDA proposal a
17 year ago under 1605 B in their workshop on this
18 continuing conversation is whether those two, that
19 artificial split I've made of riparian or other
20 conservation zones, required under practices as
21 well as those that might be expanded because of a
22 carbon value associated with it. Are gains and
23 losses in either of those two part of what you
24 would see as -- how would you handle those with
25 respect to the determination of additionality and

1 then it cools or loses in carbon stocks going
2 forward?

3 MODERATOR BROWN: John, do you want --

4 MR. NICKERSON: Sure, this is John
5 Nickerson with Mendocino Redwood Company. I just
6 want to make sure that I understand it first
7 before I try to address it. What you are asking
8 is if one were to manage with larger water course
9 buffers, how is that handled?

10 MR. PROLMAN: It is two parts. Assuming
11 that there are buffers already.

12 MR. NICKERSON: Yeah, state mandated
13 buffers.

14 MR. PROLMAN: In other words, any
15 buffers are set aside by rule. Those are going to
16 accrue carbon or potentially if they aren't
17 carefully managed or for other reasons they might
18 lose carbon, do those gains and losses affect
19 baseline and changes to the baseline over time?

20 Second, if those are extended by
21 initiative because perhaps the landowner manager
22 wants to create more carbons sink dimension to the
23 forest asset, I would assume those would be part
24 of the additionality gain and loss --

25 MR. NICKERSON: Right.

1 MR. PROLMAN: It is really the part that
2 is under the rule. Are gains from the baseline
3 included or excluded, and also are losses included
4 or excluded for mandated buffers or other
5 conservation zones?

6 MR. NICKERSON: In California, if they
7 are mandated, they are part of the forest practice
8 rules. That would be -- you would have to
9 characterize your baseline with those buffers in
10 mind. That would become part of your baseline. If
11 then you elected to increase your buffer widths or
12 the stocking within your buffers, that would be
13 part of your additionality. You would have
14 increase stocking above your characterized forest
15 practice rules, and that would indeed add to your
16 additional carbon stocks.

17 MR. PROLMAN: Would the gain in carbon
18 stocks on the non-additional buffer zones and the
19 losses in those carbon stocks if they happen to
20 occur in the non-additional buffer zones be
21 addressed over time?

22 MR. NICKERSON: There you are referring
23 to those water course buffers are managed at the
24 mandated level.

25 MR. PROLMAN: Right.

1 MR. NICKERSON: You would characterize
2 them at that level with their gains and/or losses.

3 MR. PROLMAN: They would be included in
4 the total stock accounting year to year.

5 MR. NICKERSON: Yeah.

6 MR. PROLMAN: Thank you very much.

7 MR. NICKERSON: I mean other things that
8 would be included into that would be any buffers
9 set up for spotted owls or Marbled Murrelets,
10 thinks of that nature.

11 MR. PROLMAN: We have lots of those.

12 MODERATOR BROWN: Other questions or
13 comments?

14 MS. GREENHAUGH: This is Suzie
15 Greenhaugh with World Resources Institute. I just
16 want to sort of write the question about the
17 baselines. I know I have had numerous discussions
18 with both the Pacific Forest Trust and the
19 Registry about this. I think we agree to disagree
20 on this particular point, but I am not
21 particularly comfortable with the fact that the
22 baseline characterization, essentially the
23 existing regulations, as it sort of causes some
24 problems if you've got somebody that is going to
25 operate above those regulations.

1 My suggestion is that since we do agree
2 to disagree that the registry should actually put
3 some caveat's into the actual guidance that they
4 actually have at the moment that they specify very
5 clearly up front that the baseline
6 characterization for the registry purposes is only
7 to be used for the registry or might only pertain
8 to the registry. That is somebody wishing to
9 register or sell credits into another scheme, they
10 might have some other different additionality
11 requirements that may be beyond what the registry
12 requires.

13 Just sort of makes a caveat there that
14 just because you've done what the registry says,
15 it doesn't necessarily mean that those credits are
16 going to be automatically accepted into another
17 regime or another program.

18 Having said that, it also means that it
19 is quite important that the registry ask people to
20 report what their business as usual is, what their
21 account practices are, just on the off chance that
22 if somebody is wanting to sell to another program
23 that has different additionality requirements that
24 they do have sufficient information that they can
25 actually go back and sort of back out what their

1 true baseline or what their baseline under a
2 different program would be.

3 That is just something I think that
4 needs to be highlighted quite clearly in the
5 documents and brought forward. Having said that,
6 I think most of the document is actually quite
7 well put together. There is still quite a few
8 inconsistency problem, but I'm sure they will be
9 ironed out as people read them and reread them and
10 sort get a handle of where there is still a few
11 little errors that have popped up throughout the
12 document.

13 MR. ANDRASKI: This is Ken Andraski from
14 the Environmental Protection Agency. Can I follow
15 up on her point quickly?

16 MODERATOR BROWN: Go ahead.

17 MR. ANDRASKI: I have to leave in a
18 minute. I wanted to make a very similar comment.
19 Baseline setting is extremely important, and your
20 influence in California in setting a standard for
21 how baselines should be determined and reported in
22 a voluntary system could be very influential.

23 I agree with Suzie. My take on the way
24 it is currently written, you figure out a very
25 legalistic approach to baselines which says if you

1 meet these certain -- if you comply with
2 California law, etc, therefore, you have a
3 baseline.

4 What I don't see and which I think is
5 absolutely essential to try introduce to the
6 extent you can, is more guidance on how to set a
7 baseline, how does one quantify a baseline.

8 For example, what is the scale that one
9 looks at to determine business as usual practices.
10 Is it the county, is it multiple counties, is it
11 the state? How far out should the baseline go in
12 terms of years? What methods are acceptable to
13 make projections as business as usual over time.

14 To summarize what I see is a huge amount
15 of effort and it is extremely well done on the
16 biological side and having a very crisp depiction
17 of the kinds of data that are needed, how they
18 should be handled, how measurement should be done,
19 how monitoring should be done quantitatively, but
20 a based on almost purely qualitatively. I urge
21 you to do whatever you can to accept more comments
22 from folks on trying to improve -- the guidance on
23 how to quantify a baseline.

24 My last thought is that the
25 quantification of the baseline and the fluffiness

1 that could take place by different reporters who
2 interpret relatively general guidance of
3 differentially could be much larger than the
4 errors that might be imposed by reporting
5 biological factors differentially.

6 MS. PASSERO: I guess I will just
7 respond to a couple of those pieces. Thank you
8 both for the feedback. I think that certainly
9 constructive guidance is welcome, and to the
10 extent that we are able to clarify and provide
11 more guidance, I think that we certainly want to
12 do that.

13 Just one note on the Forest Practices
14 Act as the baseline. I think it goes back to some
15 of the comments made earlier, particularly made by
16 Director Tuttle around the big picture. That
17 again is to emphasize what is happening within the
18 State of California. That California is losing
19 forest land to non-forest uses at increases rates,
20 which does mean that those climate benefits are
21 also being lost and additional future climate
22 benefits may not be gained.

23 That is the overall incentive or the
24 overall goal that we are trying to address, that
25 was behind the intent of SB 812 is to somehow come

1 up with an incentive that keeps forest lands as
2 forests and also encourages forest landowners to
3 do more.

4 We want to create something that does
5 reward good actors who are going above and beyond
6 and not create an incentive for them to go down to
7 the lowest common denominator. There are
8 increasing pressures that are creating economic
9 incentives to convert rather than to keep land as
10 forest land.

11 This happens to land whether it is
12 managed forest land, oak woodland, or some other
13 type. By trying to create an incentive that
14 intervenes earlier so we don't get to have
15 projects that are only site specific immediate
16 threats is certainly a goal.

17 MR. WICKIZER: Doug Wickizer, Department
18 of Forestry and Fire Protection. Part of it -- I
19 also appreciate those comments and I think there
20 is some room without making major changes to
21 insert some accommodation for those in the wording
22 of the protocols.

23 On the other hand, I think there is some
24 need for us to better relay what it means to
25 comply with the legalistic standards in

1 California. I think one way to present that is a
2 comparative point, two comparative points in time.

3 We put out the Fire and Resource
4 Assessment Program Report on a periodic basis.
5 The last time that report was put out I think was
6 1988, somewhere around that time. The political
7 world was a little different at that time. It was
8 just prior to the major revisions that took place
9 in our Forest Practice Rules.

10 At that point in history in California,
11 on a regional basis, not on a state-wide basis,
12 but there were regions within California where the
13 harvest rate was significantly exceeding the
14 growth rate.

15 When we revisited the question of
16 overall state-wide stocking and growth versus
17 harvest in the most recent report with some pretty
18 sophisticated analysis, the result of that was
19 that the growth significantly exceeds the harvest
20 in California.

21 The question is then the split on
22 ownership, the public versus private. That holds
23 true certainly on the public because of the change
24 in land management policy. It also holds true on
25 the private lands that it is at least one and a

1 half or two times greater on a state-wide basis,
2 ignoring regions in that comment.

3 Certainly that has been a direct result
4 of the policy shift on private lands, that policy
5 change reflected in the current Forest Practice
6 Rules. I think we need to recognize -- at least
7 we do as a work group, that bar had a significant
8 shift over time in how land is managed in
9 California.

10 MS. GREENHAUGH: This is Suzie
11 Greenhaugh for the World Resources Institute. I
12 understand what Michelle was talking about. We
13 had this discussion before, but what I am trying
14 to point out is the fact that other programs might
15 have different additionality requirements. If you
16 try to make sure that the registry is going to
17 have some flexibility for people to think about
18 sort of selling reductions elsewhere, they might
19 have to meet a different standard.

20 That being the case, you need to make
21 sure there is information in there to allow that
22 to happen. That is sort of getting what Andrea
23 was saying we want this registry to be acting as
24 sort of the reductions in this registry be sold
25 different places around the country or even the

1 world.

2 So, it is just sort of a caveat and that
3 you do need to recognize that your additionality
4 requirements are different to others that are out
5 there and to make sure that you are able to use
6 those reductions elsewhere, you need to have a
7 little bit more information and some caveats in
8 place.

9 MS. WITTENBERG: Suzie, this is Diane
10 Wittenberg with the Registry. We take your point.
11 In fact, as we -- these forest projects kind of
12 leap frog the design of a project registry piece.
13 They would be an element of a project registry,
14 but we see the design of a project registry very
15 much having those kinds of caveats.

16 That what we are trying to do is
17 somewhat in a vacuum record credible consistent
18 measurement, but that these will not necessarily
19 meet either a single or a series of regulations,
20 and there might be overlays on the requirements.
21 So, we take your point on that, and we have been
22 thinking along those lines as well.

23 MS. PASSERO: I think to echo that in
24 part is that I think that would apply just not
25 only -- this is something I think is more of a

1 general statement, that this is not a regulatory
2 system. A regulatory system may have some
3 additional or some different requirements. That
4 is a message that I think we plan or look to
5 incorporate. Whether we are talking about
6 baselines or additionality or some other factors,
7 you know, as we do with the market leakage pieces
8 in the project protocol is to acknowledge that
9 there may be other things out there.

10 In fact, the Project Protocol over time,
11 because this is a living document, is maybe
12 edited, but also that other external programs may
13 have and including the market may have different
14 ways of valuing it.

15 MR. WILSON: Chuck Wilson, Energy
16 Commission. Just to highlight Suzie's and Ken's
17 point of going back to what Doug was just saying,
18 currently growth in California that is growth of
19 the forest in California significantly exceeds
20 harvest. So, that would suggest that there is a
21 significant difference between business as usual
22 and what is required under the Forest Practice
23 Act, so you would have different baselines.

24 MR. WICKIZER: Can I throw an example
25 out of something that has been thrown at me just

1 individually as an --

2 MODERATOR BROWN: Doug, John --

3 MR. WICKIZER: Oh, I'm sorry.

4 MR. NICKERSON: Go ahead, Doug.

5 MR. WICKIZER: It is just the concept of
6 manufacturing. If a manufacturer at a later point
7 has a different project that comes forward and
8 they can demonstrate a higher efficiency, the
9 reduced loss in raw resource could then be
10 recorded as a gain in carbon. So, there are other
11 people thinking of different types of projects out
12 there.

13 MR. NICKERSON: I just wanted to comment
14 on Jeff's comment that the fact that landowners
15 are growing more than they are harvesting means
16 they are managing above the Forest Practice Rules.

17 I think in reality what's happening is
18 that the lands haven't caught up with the
19 regulatory changes, especially the rules that
20 occurred around 1995, and those lands are still
21 catching up.

22 MR. PROLMAN: Can I add just an
23 observation. Bob Prolman, again, from
24 Weyerhaeuser. In the earlier comment or the
25 question I asked about the additionality issue in

1 the conservation zones, when we have been
2 examining the whole issue of baselines and forest
3 assets for several years now, one of the things we
4 look at and in this context we are a commercial
5 enterprise, so this is an asset that is to us from
6 a very crude sense, I'd say it is no different
7 than a factory or a mill. It is something that
8 has to produce an economic return, so it is looked
9 at in that way.

10 We want to add in valuing this
11 attribute, the carbon and all its benefits and the
12 critical element of course is the quantification
13 of that asset over time, so it can be registered
14 debits and credits. There are two fundamental
15 principles we look for when we look at policies in
16 this area and the way they work their way into
17 things such as registries and project designs.

18 One is the concept of symmetry. If an
19 aspect of the forest is a source it can also be a
20 sink. If it is a sink, it can also be a source.
21 Ought not that whole asset be in there with a
22 caveat that it can't just be one way. If a
23 riparian set aside its own accrued carbon and that
24 is in the game, even if it is required by rules,
25 there should also be a corresponding obligation

1 that if it is not managed to accrue or if it stays
2 neutral or goes down or deteriorates, that is a
3 loss. There has to be integrity around that
4 issue.

5 We commended and look for and advocate
6 that there be symmetry in the putting in of that
7 element in dealing with this issue of these rule
8 required areas. If something accrues carbon
9 stocks or loses it, it ought to be in the game
10 both ways.

11 My sense was you've done that in the
12 response you gave earlier, and Weyerhaeuser
13 Company would very much like to see that stay in.
14 We know it is a controversial issue nationally and
15 internationally.

16 The other is that when we look at
17 something like this and the objective that
18 Director Tuttle mentioned at the opening around
19 the incentives for the forests to stay in this
20 state, and actually it is a national and global
21 issue, that I have for years, and even longer for
22 my Weyerhaeuser tenure, looked at public policy
23 with the question of does it reward recalcitrance?

24 By that I mean, if good behaviors are
25 happening and they are what we want, and sometimes

1 it is hard to say we don't want to just reward
2 obeying the law because that should happen anyway,
3 but on the other hand, in terms of changing
4 behaviors and incenting a system, is there a way
5 to fashion policies so that those who don't aren't
6 given an advantage by the fact that nobody has to
7 do it or I can delay and have an economic
8 advantage by delaying and not doing the
9 environmentally beneficial thing.

10 That is a tougher challenge to craft
11 into public policy sometimes. I think you have
12 begun to do that here, but I would lay out as a
13 second policy consideration as you evaluate and
14 design the final elements to put that in too, that
15 are you in effect, maybe possibly doing something
16 some would consider rewarding a complier or
17 someone who goes beyond compliance, and maybe even
18 rewarding disproportionately, a little bit more
19 than some might like, but are you avoiding
20 rewarding the recalcitrance, which is nobody gets
21 it, and those who have delayed just keep on
22 delaying because they know there is no incentive
23 for acting.

24 MR. JONES: Don Jones. If I could, what
25 I think what will happen is that the market will

1 differentiate between the products based on the
2 risk. So, if you have projects that are submitted
3 into the Bolivian Registry versus the California
4 Registry, the market will differentiate between
5 the risk as it presently does.

6 I used to be a regulator with the
7 Securities and Exchange Commission. One of the
8 things you try to do is square up the game so
9 nobody cheats, but the risk is in the marketplace.
10 You invest in your money and you take your chances
11 as they used to say.

12 One of the things about differentiation
13 is you can see the Energy Star Program where
14 computers, consumer goods are differentiated by
15 things like stickers, and that may be in the
16 market place where the true value of this will be
17 is to reward those positive practices and allow
18 the consumer -- and may oftentimes the consumer is
19 not buying the product for the carbon credit, but
20 they are buying the product for other kinds of
21 drivers.

22 If we don't have a system that at least
23 differentiates, we can't assess the risk and the
24 reward that the marketplace confers.

25 MS. WITTENBERG: This is Diane

1 Wittenberg with the Registry. Two things. Aside
2 from the specific comments people are making, I
3 think I hadn't really realized how people viewed
4 this as being presidential. You know, I guess I
5 was a little kind of more California focused than
6 I realized, so it has been useful for me to hear
7 this.

8 Also, I wanted to speak to the fact that
9 on the general reporting protocols, and we would
10 follow the same with the forestry protocols, we
11 work with the CEC probably weekly to address
12 comments by participants on the protocols, whether
13 it is simply clarity of language or something we
14 missed addressing or something we should change.

15 As good as you think anything is, you
16 need to workshop it to a more perfect form, and we
17 intend to do that with the forestry protocols.
18 Whatever is adopted, we do consider it I think as
19 Susan said, a living document that will continue
20 to be revised, hopefully not too much in the
21 broadest sense, but in terms of just making it
22 better from a user's perspective of working their
23 way through it and coming up with good products.
24 So, I just wanted to assure people that is a
25 living process.

1 MODERATOR BROWN: I'd like to get a
2 sense from folks here of how much more discussion
3 we need on certain topics because we have really a
4 lot of at least three more hours for discussions
5 of baselines, additionality, project entity
6 reporting, etc. I mean, we were scheduled to take
7 a lunch break right now. Do we want to do that,
8 do we want to continue on, are there more topics
9 we want to explore, or are we done? I don't have
10 a good sense. I just thought I would open it up.
11 Certainly we do encourage all of the parties to
12 submit written comments by June 3, which is
13 basically about a week from today.

14 I would expect that even if the Board
15 does adopt the protocols in June with some changes
16 as a result of this public comment period, we
17 would want to workshop this again in a few months
18 with representatives of the forestry industry to
19 insure that we are actually making some progress
20 in getting people to report and to provide the
21 kind of incentives that Director Tuttle set out
22 this morning is really what this is all about,
23 right?

24 This is not the end game here, this is a
25 (indiscernible) process, so I guess I hear that

1 others feel that way as well.

2 MS. TUTTLE: This is Andrea Tuttle from
3 CDF. Let me just mention that once these are
4 adopted in what ever form it is, that we will be
5 making a presentation to the Board of Forestry,
6 and we will have a good audience there. It's
7 right on point.

8 MODERATOR BROWN: Just some thoughts
9 that I have. Any additional comments or topics
10 that folks need to hear more discussion at this
11 point?

12 (No response.)

13 MODERATOR BROWN: As I understand it,
14 then, after this workshop, we will entertain
15 written comments by the 3rd. The work group will
16 convene discussions I believe next week?

17 MR. WICKIZER: Yes.

18 MODERATOR BROWN: To address not only
19 what we've heard today, but the written comments
20 that have already been filed and those that will
21 be filed by June 3rd. Then there would be a
22 revised protocol released some time in mid June.
23 Diane, is that right, prior to the Board meeting
24 depending, again -- I don't know the schedule
25 exactly, I should ask Michelle.

1 Following the work group deliberations
2 on the comments we've received today and the
3 written comments that will be filed next week,
4 there should be a period of time in which the work
5 group convenes to address in writing in the actual
6 revised protocol the comments you've received, and
7 then what will be the timing of release of that
8 final version?

9 MS. PASSERO: The final version of
10 the --

11 MODERATOR BROWN: The final version of
12 the Forestry Protocol?

13 MS. PASSERO: The Protocols.

14 MODERATOR BROWN: I am assuming you will
15 have one more cut at this before the Board meeting
16 on June 24?

17 MS. PASSERO: We plan -- our goal would
18 be to get I think on June 11 or June 14 get the
19 drafts where we would forward them to the Registry
20 Board, and I would say at that time we would
21 likely then release it back to whoever else is
22 interested for those drafts to actually reflect
23 any change that had been made as a result of the
24 public workshop.

25 MODERATOR BROWN: Will you accept

1 comments at the Board meeting on June 24?

2 MS. WITTENBERG: Yes.

3 MODERATOR BROWN: Will that be noticed
4 in some fashion so that the parties are aware
5 that --

6 MS. WITTENBERG: Yes, it is noticed on
7 our website.

8 MS. PASSERO: Actually, could I just --

9 MODERATOR BROWN: I'm just winging it,
10 but that is the process as I understand it for
11 those that are here in the room. Go ahead,
12 Michelle.

13 MS. PASSERO: I don't want to interrupt
14 your flow, I just wanted to acknowledge because I
15 had kind of blanked when I was reciting all of the
16 work group participants, and I think I failed to
17 mention that Hancock Natural Resources Group is
18 also a work group member.

19 MR. WILSON: And Winrock?

20 MS. PASSERO: I did mention Winrock I
21 think, so I just wanted to be clear.

22 MODERATOR BROWN: We haven't really gone
23 around with a round of introductions, but I hope
24 folks know who they are. The work group members
25 are available even after the workshop for

1 discussion of specific points. Michelle Passero
2 would be the point person there.

3 MS. WITTENBERG: Susan, we didn't
4 introduce -- it is a small group, and it would be
5 interesting if people could just go around and
6 introduce themselves of who is interested.

7 MODERATOR BROWN: We can certainly do
8 that.

9 MR. JONES: Point of order. Are we
10 wrapping up? I thought we were coming back after
11 lunch?

12 MODERATOR BROWN: That is my question.
13 It is your workshop. Do you wish to reconvene in
14 an hour and pursue these discussions further on
15 the record?

16 MR. JONES: I'm not sure. I can't speak
17 for anybody else, but I have some other issues.
18 I'm not sure if it needs to be on the record, but
19 I think it would be a great time to explore some
20 of those other areas that we have just touched on.

21 Selfishly, my plane doesn't leave until
22 6:00, so I don't know that there is much to do
23 between now and then. This is why --

24 MS. WITTENBERG: Do other people have
25 comments that they would like to make after lunch

1 because it depends on whether we keep this going?

2 Bob?

3 MR. PROLMAN: I don't have any specific
4 comments, only that it will be other than what we
5 submit into you next week.

6 MS. WITTENBERG: Would it be valuable to
7 continue the dialogue?

8 MR. PROLMAN: I have a plane later than
9 yours. I would be delighted to be here this
10 afternoon. I have found this to be a very helpful
11 discussion this morning, it is really zeroing in
12 on some of the stuff that is friction between the
13 wheel and the axle. I suspect we would benefit in
14 by getting a few more of the topics this afternoon
15 for those who have the time.

16 MODERATOR BROWN: Wonderful. Then what
17 I propose is would be to reconvene at 1:30, which
18 is a little more than an hour from now. Is that
19 acceptable?

20 MS. PASSERO: I don't know if others on
21 the phone will join, but it would be great to know
22 who is on the phone just to know who all is
23 participating and listening.

24 MODERATOR BROWN: Jeff, are you still
25 there?

1 MR. FIELDLER: Yes, I am.

2 MODERATOR BROWN: Suzie, are you still
3 there?

4 MS. GREENHAUGH: Yes, I'm still here.

5 MODERATOR BROWN: Anyone else still
6 there?

7 MS. HAWES: This is Ellen. I am still
8 here, but I might have to run after lunch.

9 MR. FIELDLER: This is Jeff. I'm going
10 to have to take off as well.

11 MODERATOR BROWN: Anything else you
12 would like to add before you leave?

13 MR. FIELDLER: I guess one thing I
14 mentioned in passing, and it is in my written
15 comments. I don't want to belabor it necessarily
16 is I do think it would be good to have a little
17 more thinking about two related issues.

18 I think I am quoting it right in the
19 protocol, but aggregate data would be reported. I
20 think it is pretty important to think through what
21 level of transparency you guys want. From my own
22 perspective, it's basically essential for me to
23 actual use the registry to be able to see what is
24 really going on with a project.

25 That has been a shortcoming of other

1 programs, but it was something that was done right
2 in clean development mechanism internationally at
3 AI. It would hurt the credibility of the system
4 basically if a very aggregated level of results
5 was presented, and I guess I sort of put forth the
6 proposition for discussion that what you should
7 release to the public is the certification report,
8 the same information that is handed in to the
9 registry. That is what you need to independently
10 evaluate, you know, what is going on with the
11 project. So, that is the starting point I would
12 recommend for public availability of information.

13 Later I think it would be good to sort
14 of envision some way to receive public comment on
15 what's been reported. I am not sure what is the
16 best point in the project cycle it is to receive
17 that, but I would vote the earlier the better so
18 that the project reporter and certifier and the
19 registry all have as much time to respond to and
20 incorporate those comments.

21 Again, that has been a very useful
22 process in the clean development mechanism and
23 basically a way to get free technical input. I'd
24 like to encourage you to think about those issues
25 of public comment and transparency.

1 MODERATOR BROWN: Thank you, Jeff.

2 Okay, why don't we reconvene at 1:30.

3 MS. WITTENBERG: Wait. Susan, Bob has a
4 response.

5 MODERATOR BROWN: Oh, I'm sorry.

6 MR. PROLMAN: Before Jeff leaves, let me
7 just offer an alternative model. I don't know
8 that this has to be an either or. Bob Prolman
9 from Weyerhaeuser.

10 MODERATOR BROWN: Jeff, are you still
11 there?

12 MR. PROLMAN: We may have lost -- I can
13 mention this quickly, or I can hold this until
14 after lunch, and it can be on the record.

15 MODERATOR BROWN: I think he is -- he
16 had to run. So --

17 MR. PROLMAN: If he had to run, why
18 don't I hold it until we come back after lunch,
19 and we can put it on the record then.

20 MODERATOR BROWN: We will go back on the
21 record then at 1:30.

22 (Whereupon, at 12:36 p.m., the workshop
23 was adjourned, to reconvene at 1:30
24 p.m., this same day.)

25 --oOo--

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

AFTERNOON SESSION

1:38 p.m.

MODERATOR BROWN: This is the second

half of the public workshop on the Forestry
Protocols. We have additional time available for
public comment and questions, so I would like to
open it up for further discussion.

MR. PROLMAN: Bob Prolman from

Weyerhaeuser again. I am trying to recall, I
think the very last comment made just prior to the
break had to do with the level of detail and
disclosure around the verification/certification
process and the desire on the part of some
parties, if I recall correctly what was said, to
be able to rely on the information of the Registry
to assess what was going on on projects. I think
that is what had been expressed.

I just wanted to make an observation of,
I won't say it is as much as an alternative as an
additional way perhaps, if you wanted to consider
options, that is there is also a desire on the
part of many participants if they were to get into
a project to want and may of necessity need to
keep some information proprietary. Yet, you want

1 to disclose and have transparency.

2 To me, an ideal model for that, that we
3 look to in other programs and think would be
4 applicable here is to have very clear and detailed
5 requirements and disclosure that would to the
6 table openly between the participant and the
7 verifier/auditor.

8 Maybe there might be one stage less of
9 that detail would percolate up to the stage, but
10 allow it to be held like other business
11 confidential data, so that there is a verified,
12 there is a set of protocols that would have to be
13 attested to like in the audit process for the
14 certification.

15 That way there is an independent
16 function, an independent player that comes in and
17 attests to the fact that the processes, the
18 registry's requirements for credible high
19 integrity carbon stocks were attested to and are
20 in fact in place, and here are the results or some
21 characterization of that at a general level. So,
22 there is an assurance of integrity by a third
23 party against publicly set criteria.

24 It will not give the level of
25 transparency we know some people like, and that is

1 an alternative for those who may want to
2 participate and need to protect proprietary
3 information, and it reflects the fact that many
4 forest companies, the whole issue of stock rates,
5 growth, quantities, rates of change and so forth,
6 depending on what they include in the project, and
7 the share of one hold assets that represents.

8 That is very market sensitive information.

9 Disclosure of it would be problematic as a
10 business issue. It may be problematic as
11 Sarbanes-Oxley legal issue for that matter these
12 days.

13 MODERATOR BROWN: All I can say from a
14 state perspective, we have strict rules and
15 procedures for maintaining confidentiality of
16 proprietary information. Right, Lisa?

17 MS. DECARLO: Right.

18 MODERATOR BROWN: I'm not sure how that
19 would play with the Registry being a non-profit or
20 non-governmental body. Would you have an opinion
21 on that, Lisa, as an attorney or? I'm sorry to
22 call on you, but since you are here.

23 DECARLO: That's okay. Our regulations
24 for confidentiality would -- Lisa Decarlo, Staff
25 Counsel, Energy Commission. Our regulations for

1 confidentiality would most likely only apply to
2 us. I don't know that it would extend over to the
3 Registry, but I would imagine there would be some
4 sort of process in which enter in to
5 confidentiality agreements with the Registry and
6 participants.

7 MR. PROLMAN: I just offer that up as an
8 alternative or an additional way if one of the
9 goals is to encourage participation to create a
10 secondary method for those who want to come in,
11 might meet this criteria, even though it might not
12 meet an open set of criteria for other projects
13 that some might be willing to meet, just as
14 another vehicle that is used elsewhere.

15 MODERATOR BROWN: Would that cover
16 optional data only or certified data that would be
17 certified by the Registry as well?

18 MR. PROLMAN: I think the issue for the
19 participant, if they are a forest-owning company,
20 is not so much whether the information is optional
21 or not for the Registry side, its proprietary
22 sensitivity to the company in the marketplace and
23 under government disclosure rules, financial
24 disclosure rules.

25 MODERATOR BROWN: Yeah.

1 MS. WITTENBERG: Because if it was
2 sensitive, they wouldn't report it under optional
3 probably.

4 MODERATOR BROWN: I just was trying to
5 think that through as you were talking.

6 MR. NICKERSON: John Nickerson again
7 with Mendocino Redwood Company. I want to talk a
8 little bit about the template that exists for that
9 in California with the existing long-term
10 management plans that get submitted to the State
11 of California.

12 Many landowners feel the same way you
13 spoke about that they are not willing to share any
14 numbers that would allow someone to interpret the
15 value of their lands, and so they submit them as a
16 confidential addendum. I think that kind of
17 template would work.

18 MR. PROLMAN: The mechanisms are clearly
19 there. The question is -- my experience is, I
20 don't think this satisfies the concern that was
21 raised by NRDC before the break, and I respect
22 that concern. That is a historical and not unique
23 to this subject matter, and there is a dynamic
24 tension there. I would just offer that perhaps
25 allowing both so that if there is a party out

1 there that is not a traditional commercial holder
2 that wants to disclose more, or even one who is
3 who has an isolated project that is comfortable
4 for that project disclosing everything for
5 whatever purposes of the project, that the options
6 be there. I think you might find it opens more
7 opportunity.

8 MR. WICKIZER: Doug Wickizer, California
9 Department of Forestry. I'd like to second what
10 John said and just point out it was a large number
11 of companies that raise those types of concerns
12 when the Board rules were first being developed
13 with the concept of proprietary information.

14 The Board recognized that concern, and
15 it also recognized the concern of other interests
16 such as NRDC. The balance that was selected was
17 that the state that does hold that information is
18 confidential. The public information is at a much
19 grosser level to where you can't truly identify
20 the inventory of a particular ownership.

21 That seems to satisfy the balance with
22 the need of the public to know versus the
23 proprietary interest of the landowners.

24 MS. PASSERO: I just have -- I'm sorry,
25 go ahead.

1 MR. WICKIZER: It -- no.

2 MS. PASSERO: One thing I think would be
3 really helpful because it gets to sort of the
4 transparency issue that we are I think still
5 working out, and that is to actually sort of
6 itemize out what we think are the confidential
7 proprietary pieces of information, so we know what
8 they are and then that is the least public
9 knowledge of what they would know. What types of
10 information will be kept confidential because they
11 are proprietary, but the certifier may be looking
12 at. So, any sort of feedback we can get around
13 that from forest interest would be helpful.

14 MR. WICKIZER: May I suggest that the
15 industrial representatives look at the CARROT
16 report and see if that level of reporting is
17 consistent with their needs, or if there is
18 something else that could be reported in place of
19 those numbers to meet the Registry's needs.

20 MS. WITTENBERG: This is Diane
21 Wittenberg from the Registry. Right now I am sure
22 that it will meet their needs because at this
23 point, the Registry just collects aggregated data
24 for the public. It won't meet NRDC's needs.

25 MODERATOR BROWN: Do you have a comment

1 on the phone?

2 (No Response.)

3 MR. PROLMAN: Bob Prolman again,
4 Weyerhaeuser, I sense that if the Registry adopts
5 the mechanism and process that the state already
6 has as far as planning submissions and all that.
7 That is the kind of thing the industry usually
8 likes to see, needs to see, and it works. It's
9 there, prove it.

10 The dilemma is not so much doing
11 something different from that as the minimum,
12 you've got that model. It is more the disclosing
13 required by the NRDC where I think we all usually
14 get concerned about that disclosure business
15 issue.

16 MS. GREENHAUGH: Hello? I can't hear
17 anything.

18 MS. PASSERO: Did you just hear Bob
19 Prolman just speak, Suzie?

20 MS. GREENHAUGH: Not that well. I got
21 about every third word.

22 MR. PROLMAN: Some people say when I
23 talk that they hear every third word, it makes
24 sense.

25 MODERATOR BROWN: Is this better Suzie?

1 MS. GREENHAUGH: Yeah, that's much
2 better.

3 MODERATOR BROWN: Other comments?
4 (No response.)

5 MODERATOR BROWN: Are there other areas
6 where a discussion would be useful now that we
7 have everyone here?

8 MR. PROLMAN: Bob Prolman. I have a
9 question. Maybe to go back over something I
10 believe was mentioned this morning. I would be
11 curious to get some expansion of the issue in
12 terms of measurement and significant events or the
13 force majeure events. Could you elaborate further
14 on for the force majeure event, how that will be
15 dealt with, a forest fire or pet loss, or
16 something like that, in the baseline calculation
17 and then to adjustments to on-going inventories?

18 MS. PASSERO: Sure. There is the entity
19 level and a project level. At the entity level,
20 if you had established a baseline -- I can't
21 remember the percentage just off the top of my
22 head, but I think it is 10 percent loss in total
23 carbon stocks or more, so that would accommodate a
24 catastrophic type event. Then you would adjust
25 your baseline accordingly.

1 At the project level, you wouldn't
2 adjust your baseline, rather it would be reflected
3 in the reporting of your project activity. Once
4 you were to bring the stocks back up and then
5 obviously certainly if you were engaged in any
6 sort of deal outside of the Registry, then that
7 information would be there and you can see that
8 there has been a loss in the carbon stocks, then
9 you are building it back up.

10 MR. PROLMAN: If I understand that
11 correctly in the context I recall it being
12 discussed this morning, one of the perhaps yet to
13 be addressed elements that may not be part of this
14 activity task right now is sort of a guidance on
15 an acceptable way if you are going into a
16 contractual relationship and a party is reporting
17 and their inventory has in it a buy/sell
18 adjustment and that gets lost because of a force
19 majeure event, how that would be dealt with?

20 MS. PASSERO: I mean that is the
21 right --

22 MS. WITTENBERG: You would look to the
23 Registry. I wouldn't think that would be in the
24 scope of the Registry's guidance because I think
25 that would be a bi-lateral contract between the --

1 MR. PROLMAN: There is a question of
2 liability for replacing it. The other question
3 that comes up for example, in an asset situation,
4 just a traditional asset, if there is a force
5 majeure event, the parties often talk to the
6 extent it can be who has liability to do any
7 insurance or whatever else. But if it goes even
8 beyond that, the parties hold each harmless, let's
9 say, they realize it is going to be a loss and
10 nobody may recover that one.

11 We addressed this at the USDA in terms
12 of if there was a classic, let's say, a forest
13 fire loss, there would be a baseline adjustment,
14 and while that grows back, there is no
15 additionality until it gets back to where it was,
16 and you baseline adjustment that back in. So, it
17 is like a divestiture and then a reacquisition
18 baseline adjustment. It is sort of a safe harbor
19 or hold harmless for that, and what we would be
20 looking for is the acceptability of that in the
21 inventory management set of rules. It is really a
22 baseline adjustment question I suppose or on-going
23 inventory adjustments, such that we understand how
24 to account for it, and then we have clarity about
25 how to deal with the contractual relationship on

1 the buy/sell agreement.

2 MS. PASSERO: You are suggesting at the
3 project level as well --

4 MR. PROLMAN: It could apply to any
5 level, yes. Absent that clarity, then it is all
6 left to the contract, and you may not get clear
7 understanding or uniform reporting of how those
8 events are handled on every transaction that comes
9 in to the Registry. It is sort of the fasby gap
10 guide for accounting for carbon.

11 MODERATOR BROWN: Mr. Jones, did you
12 have issues you wanted discussed this afternoon?

13 MR. JONES: I'm sorry I came in a little
14 bit late. It seems to me the two issues that I've
15 heard so far has been the protection of
16 intellectual property. The issue of the
17 fungibility and certainty in the marketplace, I
18 think with regard to the first one, intellectual
19 property, if you want to have people come to the
20 party, the rules have to be fairly open and
21 direct.

22 There are always proprietary modalities.
23 For example, the measurements, the algorithms that
24 you use. When we first began our projects in
25 Malaysia, because we were new to this, we wanted

1 to publish as widely as possible, so we had 35
2 peer reviewed articles, so that the data would get
3 disseminated, people could agree that a ton is a
4 ton is a ton, whether it is a Malaysia Dipterocarp
5 or a California redwood, that there is an
6 understanding of terminology across the table.
7 So, when we take a look at the baseline issues
8 that we know what a baseline issue is.

9 That was very good and charitable in the
10 beginning to get the dialogue, and then what we
11 started to see were subsets of the intellectual
12 property where people would calf them off and then
13 hold them, and then you would have to pay for
14 those to get developed, like SGS later on
15 developed their Forest Protocols.

16 In order to get the answer, you've got
17 to go to them and pay them. That is okay if
18 everybody understands that the end of the process
19 is still a ton is a ton is a ton, and that you
20 have a clarity on how you get to that, whether you
21 choose to take the fast track or the long
22 extensive one. You have to prepared at the end of
23 the day for the auditor to show up.

24 If the auditor shows up and your
25 methodology is suspect and you can't point to a

1 rationale for it that is intellectually
2 defensible, then you are stuck.

3 The other thing when we dealt with the
4 issues of force majeure in projects in Malaysia,
5 it was kind of actualmantic that if there is a
6 forest fire, it is always your trees that burn and
7 mine that are saved, so what we tried to do was
8 set aside a sinking fund to underestimate a
9 percentage and put that into a satisfied fund that
10 would be used to hold the totality out there.

11 When you start to deal with that, you
12 start to talk about carbon leasing over time,
13 which the service of the tree for the finite time
14 and when I paid for tenures of carbon service,
15 that the tree continues to give carbon service for
16 20 or 30 more years. If I only paid for ten, why
17 should I get the benefit of 30 or 40 years more?
18 So, there are in the marketplace set aside sinking
19 funds, there is pools.

20 For example, the Utili-tree puts all of
21 their carbon tons into a pool and divides the pool
22 amongst the larger numbers of members, so that if
23 a project in Malaysia goes up in smoke, you've got
24 projects from Bolivia to back it up or projects
25 from the Redwoods.

1 That only happens if you are out there
2 aggregating in a macro market sense where you can
3 replace those. We used to call that a set aside
4 or sinking reserve fund. There are methods out
5 there to do that.

6 As far as the force majeure, how do you
7 deal with that in a commercial contract? You
8 know, when you go out there and contract to plant
9 100,000 acres of pinus caribiensc and you get 95
10 percent survivability. How do you deal with
11 those? Well, those are traditionally by sharing
12 the risk. It is at the end of the day the purpose
13 of what I see here is to make the rules
14 transparent, so that you understand the risk. Not
15 to mitigate the risk 100 percent, otherwise you
16 wouldn't have market fluctuation.

17 As long as all the methodologies are
18 transparent enough to allow for the market to
19 speak, then the market will sort out what is
20 "good, best and in between", what is acceptable
21 with the rate of risk that you need and for how
22 long do you need that offset for your activity.

23 If you are running a short-term activity
24 that is highly carbon intensive, you may just need
25 those first five years to get you over that

1 offset.

2 If you are engaged in a power plant
3 where theoretically you have a 50 year life plant,
4 you may need a longer stream of carbon and may
5 have to at that point diversify. That is
6 generally what I think will happen is there will
7 be carbon pools that will be established where
8 there will be aggregators that aggregate and put
9 it all in the mix, so the whole investment doesn't
10 go up in smoke, no pun intended.

11 Those would be my initial thoughts on
12 it. I think initially for intellectual property,
13 you have to open share it, and then when it gets
14 to be proprietary you have to agree on how it got
15 to be that way, and pay the difference.

16 MR. WICKIZER: Mr. Jones, I want to make
17 sure I understood what you were saying correctly,
18 that the state would not necessarily accommodate
19 that risk, simply state what it was, that the
20 market would accommodate the pooling to address
21 the risk? Say the brokerage house or whoever is
22 handling it if there is a trading system, but the
23 transparency is the state's obligation?

24 MR. JONES: That is the experience I
25 bring to this being a regulator in securities,

1 that you have to make sure that the game is fair,
2 and then the market speaks as to what AAA quality,
3 BBB, CCC, junk bond. Hopefully, it is the rate of
4 risk that determines that, and the rate of risk is
5 determined by who are the players, what is their
6 track record, what's their history, what can they
7 deliver, and deliver it to whom. Then it becomes
8 straight commercial.

9 No, I don't expect the state to set up
10 the balancing of the equities. If something
11 happens, you are not going to come in there and
12 say, well here we will just give you what we've
13 got out of our pool. Unless you have to do that
14 in a different kind of market environment. If you
15 have a emerging market place, like say Nicaragua,
16 where there are no stock markets, the state has to
17 stand in, in some instances and guarantee that
18 what is coming off the dock is good. There are
19 commercial services that do that.

20 I don't see that the state gets in to
21 determining that as much as it sets up the
22 methodology for fair open transparenttness,
23 transparency. The state sanctions a lot of
24 activities where the buyer takes the risk. Just
25 go up the road to any casino nearby and you will

1 find out what I mean.

2 MR. PROLMAN: This is Bob Prolman again,
3 Weyerhaeuser. I would compliment that very much
4 in agreement with what was just said, that the
5 state shouldn't indemnify this. What we are
6 looking for as far as asset owners would be what
7 is a ton, what is an eligible ton, for what are
8 the rules around its quality, what kind of sources
9 they are coming from, the risk around it, and so
10 forth.

11 However that framework, the counting and
12 measuring framework set of rules, what are the
13 rules that are accepted and methods of measuring
14 that ton itself, so that I know I have a ton. Is
15 it a 80 percent certain ton, is it a 90 percent
16 certain ton? Then the marketplace can readily
17 move into the concepts.

18 In fact, there are many papers out
19 already dealing with the concept of renting or
20 trading the carbon ton for a short limited time.
21 There are participants in the global insurance
22 market looking at Swiss Reed coming up with like
23 kind pools or straight insurance instruments, and
24 then allow the parties to the trade, would
25 register the trade with the Registry to determine

1 the liability ownership of fulfilling that through
2 traditional market risk methods. It works very
3 well.

4 MR. WICKIZER: Forgive me for delving on
5 this, but I think it is pretty important. We have
6 some factors in California that could assist us --
7 this is Doug Wickizer, excuse me. For example, we
8 have a ten-year fire history and a return fire
9 risk. With regard to insects, we have been able
10 to make I would hazard to say kind of a gross
11 guess as to what part of California has a 25
12 percent or greater risk of being impacted by
13 insects over the next 25 years.

14 Is it that type of thing that you are
15 looking at or something more with a finer
16 resolution?

17 MR. JONES: I'm not sure I am able to
18 speak to that, but it seems to me if you are able
19 to set insurance rates that insure against
20 accidents, fire, beetle infestation, shipping
21 accidents at sea, then why wouldn't you be able to
22 insure against loss of carbon credits.

23 If the state wants to make sure there is
24 a replacement then perhaps a regime that puts
25 carbon induced activities on state land, and that

1 gets held into a trust for the state benefit, and
2 then you draw down from that account.

3 If you are a participant, if you pay
4 into the pool, it allows you to draw those down.
5 These are some pretty esoteric areas, but risk
6 mitigation goes all the way back to Lloyds of
7 London. I mean if you can insure shipment of tea
8 350 years ago, you can sure insure some trees in
9 Mendocino now.

10 MR. PROLMAN: The other piece of that as
11 well is a landowner manager now, if they've got a
12 sizeable operation and they are commercially
13 running it, we will take that kind of data about
14 fire risk loss, statistics, region, probabilities,
15 insect loss, and so forth. All the traditional
16 risks to the wood volume itself which are already
17 being managed, figure out net losses in terms of
18 their growth and yield assessments to come up with
19 what they think they will be growing on that land,
20 net of all these risks. The very process of
21 sustainable management in a modern forestry
22 operation today is already managing an netting
23 those risks into the assessment of fiber pool.
24 That is correlated, of course, to the carbon pool.

25 With that in mind, once the accounting

1 rules and framework for the carbon are similarly
2 understood they match the financial system, the
3 ability then to bring that to bear in managing
4 that risk is a lot easier for the participant that
5 is going to trade and they would be looking for,
6 so where can I hedge the residual risks that I
7 have, that I haven't already accounted for. If
8 there is a state fund, like some states have a
9 generic fund for auto insurance, so you buy into
10 that, or swiss reed moves to market or like kind
11 pools, or self insurance through different
12 management approaches.

13 The buyer and seller will want to look
14 in qualifying the caliber and the price they pay
15 for the carbon asset in terms of how risky is it
16 in terms of permanence and how certain will the
17 assessments that the ton is a total ton, it is not
18 going to get marked down if I sell it across the
19 board or on a future trade regime or something
20 like that. It is very much like currency I think.

21 MR. JONES: Speculation is what drives
22 it, yeah.

23 MR. PROLMAN: It can get very exciting,
24 and I was told to keep this out of derivatives for
25 the time being, so I won't go there with that.

1 MR. JONES: If I may, your industry has
2 been very good at managing those risks, you out
3 performed the Standard and Poors 500 over time.

4 MODERATOR BROWN: I guess I had a
5 question based on my reading some of the comments
6 from some of manufacturers of forest products.
7 How do we respond to the issue that forest entity
8 is defined as a forest company as opposed to a
9 manufacturer. Are we at some point going to
10 extend the forestry protocols to other entities
11 beyond landowners? I would just like to hear the
12 answer because that seems to be a theme in some of
13 the comments that we received.

14 MS. WITTENBERG: I think that -- Diane
15 Wittenberg. That goes to the issue of where the
16 reporting happens, which I think that in our
17 conversation, is a clarification issue, right? It
18 is not a substantive issue.

19 MR. PROLMAN: If I can speak to that --

20 MODERATOR BROWN: If you would help me
21 with that please.

22 MR. PROLMAN: The last three days
23 because of this event, you have helped focus some
24 attention on a number of subjects. This is one of
25 them, and there is a lack of clarity on the part

1 of many of the major forest industry members.

2 The wording about the forest product
3 pool, of carbon sink, could be registered by the
4 forest owner. Some have interpreted that to be an
5 assertion that only the forest owner can ever
6 register that, and a failure to acknowledge that
7 carbon entity starts with the log that gets
8 harvested and moves through a value chain. It
9 will cross ownership owners of entities along the
10 traditional market profile of our industry today.
11 It is not all monolithic. Every company is not
12 vertically integrated.

13 One of the questions was to get some
14 clarification about that, if this was talking
15 about trading, you would have probably addressed
16 it, and it got into the whole question of who owns
17 the right to the title of the carbon asset as it
18 moves out of the forest owners hands along the
19 value chain. Is it separable from the physical
20 wood product to be held, stripped off like a
21 coupon of a bond, so to speak, once it is
22 registered by a party, particularly if it is
23 traded as an offset.

24 You could sell the wood product bundled
25 or unbundled with the carbon. That is a trading

1 protocol discussion, and some of the comments we
2 got from our industry will be looking to raise
3 that concern and get clarification around what the
4 meeting was of that particular element.

5 MODERATOR BROWN: I think that would be
6 very helpful.

7 MS. PASSERO: That does get more into
8 value chain issues certainly.

9 MS. WITTENBERG: I'm just again -- these
10 issues are really addressing how far or where the
11 boundaries of registry are to a certain extent.
12 I'm thinking about currently the State of
13 California as it looks at it as RPS standard is
14 looking at whether utilities and who owns the
15 emission reduction credits, and then is it
16 stripable. That is really the issue.

17 MODERATOR BROWN: Or tradeable.

18 MS. WITTENBERG: You know, I didn't
19 really see that in our view here within our
20 registry. I don't know if we should expand our
21 thinking.

22 MR. JONES: This is Don Jones for the
23 record. If you look at it through the whole
24 activity, from the time you plant the tree and it
25 grows till the time it gets delivered to the mill

1 gate, if you just stop at the mill gate, and you
2 don't take into account the efficiencies of the
3 milling operation, what happens to the residual,
4 does it get used for fiberboard, for press board,
5 is it used for biomass generation, and you don't
6 take it out of the mill gate to the end product,
7 what is its usable life.

8 Is it going to be used in a house, is
9 that a 40 year use --

10 MS. WITTENBERG: That's addressed.

11 MR. JONES: -- commercial use. What you
12 are going to end up with, I hope, down the future
13 is a full carbon counting for the whole cycle of
14 human induced activity, which may be kind of very
15 very far reaching, but at a certain point in time,
16 to deal with the whole issue of climate change,
17 which is what brings us to the table, you didn't
18 have to do that.

19 Maybe the protocols will get segmented
20 with the production of raw material up to this
21 point, the process of the raw material up to this
22 point, the transportation of raw material up to
23 this point, and then the end use of that material
24 as it gets processed through.

25 The value of having a forest industry

1 that is fully integrated like our clients in
2 Malaysia, we've got a million hectares with twelve
3 saw mills and transportation, 19 ships, is that
4 you can actually trace the log from the forest to
5 the end user in Tokyo and see where there are
6 economies of efficiency of carbon reduction
7 throughout the chain title, and then find out
8 where there are the interventions that are the
9 cheapest that bring the greatest return.

10 It may be in the forestry, it may be at
11 the mill, it may be in the transportation. You
12 know, you may just want to switch from using a 30
13 year old Spamaru, which burns a lot of number two
14 bunker fuel to a five year boat that uses a higher
15 efficiency.

16 MS. WITTENBERG: We have had a lot of
17 discussion --

18 MR. PROLMAN: I would add -- Bob
19 Prolman, again, Weyerhaeuser, for the record. You
20 have in the documents a methodology for
21 quantifying that product carbon that residual
22 asset all the way down to the very final use, bate
23 and affects type of thing. In fact, we will be
24 commenting on that, and the only thing the
25 industry will probably talk about is something

1 that we are now taking as the next generation
2 methodology to tighten that up even a little more
3 accurately.

4 What you have is what I think is a
5 practical way to from a financial side, I would
6 use the phrase "Create a present value debit or
7 credit you can take at harvest to quantify a
8 legitimate value at that point in time."

9 The issue, and it does come up in the
10 RPS area as well, especially since a RPS sold as
11 with it the greenhouse gas attribute, is that in
12 both regimes, RPS and the greenhouse gas subject
13 area, the environmental aspect is bundled with a
14 thing, the electrons and the power gain, a piece
15 of wood or fiber in the forestry area. Then there
16 is a transfer. If a transfer is across an
17 economic boundary from one company to another, how
18 do those two things pass together, can they be
19 separated, can they go in totally different
20 directions, who gets the right to register it, own
21 it, ask for value and trade? These are trading
22 rules, really questions that came up in the
23 bundle/unbundle who had the authority to do that,
24 do you accept that or not.

25 Some RPS states don't, some do on that

1 particular subject.

2 MS. WITTENBERG: They are addressing
3 that -- I mean there is a law working its way
4 through the legislature in California, so it is
5 going to be legally decided.

6 MR. PROLMAN: Legally decided, so, yeah.
7 That is where a lot of the industries anxiety
8 right now with the wording you have and a lack of
9 clarity about how much of the registry and trading
10 concept is embodied in this action. That is the
11 confusion on our part about that, that we will be
12 looking to ask for clarity on that. It will help
13 us at least then give you a more appropriate
14 response to what you have on that issue.

15 As I understand from today, there is a
16 chapter yet as unwritten that we all really have
17 to wait for here.

18 MS. GREENHAUGH: This is Suzie
19 Greenhaugh (indiscernible). I have talked to a
20 couple of forest manufacturers about this, and the
21 other thing that popped into mind is the double
22 counting issue. I always got the impression that
23 some of the forest product manufacturers feel that
24 they should be able to claim some of the
25 reductions that are associated with wood products

1 as well. They would like to report them.

2 From what I gather, the only people that
3 can report them are the landowners themselves.
4 There could be at times a double counting issue
5 that needs to be addressed if you do actually
6 allow forest product manufacturers, I guess, to
7 actually claim credits as well.

8 MR. WICKIZER: Doug Wickizer, Department
9 of Forestry. That is a valid point, Suzie. That
10 was the other half of the discussion that we had,
11 and the first half was the one Mr. Prolman raised
12 with Weyerhaeuser. The only balance we could find
13 was that the carbon was registered by who owned it
14 at that time, the market would then dictate the
15 ultimate ownership of that, be it or albeit not
16 necessarily a registry problem at this point in
17 time, understanding that we grow legal wings down
18 the road.

19 MR. PROLMAN: Bob Prolman. It is
20 actually I think agreeing with your comment. It
21 cannot be double counting, I think that is
22 important. If we understand how at some point
23 when that piece of carbon is created along with
24 the piece of wood as it leaves the forest, it's
25 been registered by the forest owner, let's say, as

1 a product present value amount of it, that is okay
2 to book as a credit, then what happens to it.

3 If it has been registered by the forest
4 owner, in effect, if the wood goes forward, and it
5 is in the hands of the manufacturer or somebody
6 else down the value stream it is without the
7 credit because it is booked by the forest owner
8 when it was created.

9 The forest manufacturing part of the
10 industry has said well, but can I have rights to
11 it, and we ourselves are still sorting through the
12 understanding of how that value chain transfer
13 ought to occur, there is a whole lot of argument
14 about who is adding the value with who is adding
15 carbon value or destroying carbon value, as well
16 as the product stream.

17 MR. WICKIZER: Doug Wickizer again. Is
18 it that there is a gross value there at the
19 beginning. That is what I was referring to as
20 possibly other -- we could possibly foresee other
21 projects down the road, part of the project or one
22 of those projects, I think I mentioned earlier,
23 was the whole concept of efficiency in processing.
24 Now if that can be demonstrated as a separate
25 carbon recovery that would not have been made out

1 of that initial gross amount, then I would suspect
2 somewhere there is a means of identifying
3 additionality with those gains in efficiency.

4 MR. JONES: Don Jones. The lawyers in
5 the room will remember the Palsgraph Case where
6 you've got the butt four activity, but for the
7 intervention this activity would not have
8 occurred. We intervened, the activity occurred,
9 which the means of generation for these activities
10 over the baseline.

11 Just as important are the creations also
12 as you alluded to, the retirement. When do they
13 cease to exist? Do they cease to exist when the
14 utility company buys them and now burns coal to
15 offset their activity?

16 Just as important as the creation is how
17 we retire this and what these series are. These
18 can't be allowed to continue on in perpetuity.
19 They have got to be capped and traded and used
20 because it is a diminishing pool.

21 MR. COLLINS: Terry Collins from Collins
22 Pine. Yeah, it sounds kind of like maybe if the
23 forest owner has a certain amount of carbon credit
24 for what so many board feet is going to go into
25 lumber, then that is in a sense, it seems that is

1 establishing a baseline for the product. If say
2 the manufacturer is a different entity, then he is
3 going to have to build above that baseline like
4 maybe he might decide well, I might install a co-
5 generation plant, and so he might get some benefit
6 over and above that baseline maybe. I am just
7 making that suggestion.

8 MR. WICKIZER: Again, I guess I forgot
9 to mention the one thing. In these protocols,
10 there is a basic efficiency assumed. There is a
11 mill recovery rate assumed, and that is where I am
12 saying that there is a possibility for other
13 projects if you go beyond that as these grow.

14 MR. PROLMAN: Bob Prolman again for
15 Weyerhaeuser. Actually, those last couple of
16 comments on that, the last three comments made
17 popped a picture into my mind that I hadn't
18 thought of. You have in there the efficiencies of
19 the mills and the decay rates all the way to the
20 end, short of the I guess landfill disposal piece,
21 product pool and landfills.

22 There are occurs and equations and
23 everything that sort of lays out that baseline,
24 then that does open the opportunity for someone to
25 come in and say I am going to show you how I do

1 all of that and have a delta that is different and
2 additionality and create a project around that,
3 that would create additionality. I think you have
4 the basics in place to deal with in general the
5 issue of if a carbon credit is created, at some
6 point if it is used to offset an emission, it
7 locks up a liability against an asset, to
8 neutralize each other out, that is what that whole
9 concept is about as I understand it.

10 That might just stay there forever, that
11 is the permanent risk issue. If someone without
12 loss from a permanence force majeure event wanted
13 to unbundle that, if I took my whole forest,
14 locked it up in carbon credits, sold it, and 30
15 years later wanted to harvest it all, if I could
16 replace those carbon credits with an alternate set
17 at that time, so that the original bundle -- maybe
18 it is like closing a commodity, an open and close
19 position kind of thing, and I free up my forest
20 asset now, I have to replace what I sold against
21 that liability I incurred when I sold it, so that
22 can actually remain fungible over time.

23 MR. WICKIZER: Yes, it can.

24 MR. PROLMAN: I think you have a lot of
25 the foundation fundamentally now built into this,

1 and we need learn more how the financial market
2 will work with that to maybe see how the trading
3 system could then take this and do something with
4 it.

5 MS. PASSERO: I think Don's point was
6 when he was talking about the different segments
7 to be developed, where we sort of drew the line
8 then is having the decay rates attributed to the
9 wood products, and then there is another segment
10 that would follow and down the line until you have
11 the full cycle captured.

12 MS. WITTENBERG: Diane Wittenberg. One
13 of the things we were sensitive to, I think, is
14 where the lines are of where a registry starts and
15 stops as opposed to trading and brokering on one
16 side and policy and regulation on the other side.

17 If we get too much into trading rules,
18 then you have Arthur Anderson problems
19 potentially. That is why we tried to draw the
20 lines about where we did. So, it is interesting
21 to me to hear this discussion that kind of -- I
22 mean this whole forestry protocol kind of pushes
23 the envelope, but I didn't expect it to push it on
24 where the boundaries of what a registry might lay
25 out.

1 I understand it is different than if it
2 is a regulatory registry and if it is a voluntary
3 registry, and we are really talking more broadly
4 than that. Still, where the line is between the
5 free market, the state who is not looking at the
6 registry aspect, whether it owns it or not, but at
7 trading issues, it is all unclear.

8 MR. JONES: There is even more
9 permutations than that. Say you need -- Don Jones
10 for the record. Say you need the carbon credits
11 for compliance, and when you use it, it is gone.
12 Say you buy the carbon credits for speculation on
13 the theory that you are going to hold it and sell
14 it to someone else, wouldn't it be equitable as we
15 did in the contract, that if you buy it and you
16 resell it, that 50 percent of the resale profit
17 goes back to the creator?

18 MS. WITTENBERG: It's like art. That is
19 how the art world (indiscernible.)

20 MR. JONES: That is what we in fact did.
21 When we resold our carbon credits to the Edison
22 Electric Utility Institute, we split it a check
23 between New England Energy Systems and Innoprise
24 in Malaysia because we had anticipated that in the
25 contract to avoid what we call buying the low

1 hanging fruit.

2 There's why not buy it cheap, and then I
3 hold it and then I resell it, and then the person
4 that created at the forestry end, gets no benefit
5 except that the cost of creation. When you
6 structure the contract, where all you get is the
7 cost of creation, there is no added incentive for
8 it to be better because you don't care, you've
9 already resold it.

10 MR. PROLMAN: Bob Prolman again. I
11 guess the one thing that as a first generation,
12 and again it may go beyond this current
13 initiative, maybe it is a follow on project, but
14 the more the Registry can qualify the measures for
15 quantification and the rules for once you know
16 when a ton is a ton is a ton, whether it is in or
17 out of the ability to register it, that it is a
18 qualified ton, if you will, and how it gets
19 accounted for an adjusted over time. Basically,
20 the accounting framework rules and the
21 quantification measurement methodology.

22 With those two in place, we begin to
23 have the capacity for those who want to create a
24 market system, a Chicago Climate Exchange, for
25 example, is setting up the market trading

1 mechanism and the contract and all the
2 relationships.

3 The biggest question is, what is this
4 commodity, and does the one I have qualify? Is
5 there some place I can register the facts of the
6 deal so that it is formally accepted like we do
7 with, what is the term, a red herring or something
8 like that in a securities deal.

9 MS. WITTENBERG: One of the things --
10 this is Diane Wittenberg -- we have been thinking
11 about for a project registry in general under
12 which these projects would fall, would be sort
13 of -- one element of it would be an electronics
14 document rule that would be almost I don't know
15 the equivalent would be an escrow company or what,
16 but where all the documents if you were looking to
17 buy or sell something, although we, as a bank,
18 wouldn't be involved in the sell, someone who
19 might want to buy it could come and look at all
20 the fact verification, validation, ownership on
21 line. So, it just facilitated the transaction.

22 MR. JONES: I think that works in an
23 emerging market when you have the time to look at
24 the new product. What makes a market is volume.
25 Nobody I know that trades volume goes and looks at

1 the 8 K's and the 10 K's of the companies and does
2 that kind of deep analysis because they are
3 looking at fluctuation. They assume that because
4 they have been registered with the federal
5 government or trading agency that there is no
6 fraud involved.

7 Then you have to have the opprobrium
8 that comes down when you do discover that there
9 has been misreporting, and that opprobrium is
10 barring those entities from registration, and that
11 is the risk that the market place takes into
12 account when it sets that up. So, I am not sure
13 we want the state to be in there verifying every
14 single carbon ton as much as we are sure of what
15 comes through the gate if you do a statistical
16 analysis of it that it is meaningful when it comes
17 through there. That 99 percent or whatever is in
18 fact what you say it is.

19 We do that all the time when we sell
20 water, bottled water, milk, those kinds of things.
21 There is a certain standard that you have to meet,
22 so I think Chicago Board of Trade and those other
23 institutions -- you know, I remember Dick Sandor
24 talking about that. What he said when the Chicago
25 Grain Market started in the 1830's you couldn't

1 have fungibility between winter red rye and
2 Kansas. You needed a market place for those to
3 exchange, so there is a nominative value that is
4 equal to both.

5 MR. PROLMAN: Bob Prolman again. At
6 some point -- this is moving -- the whole interest
7 around this trading concept is growing as people
8 begin to think of it as an asset. If it is an
9 asset, one question that was asked of me is it a
10 commodity that's being traded, or is it a security
11 that is being traded. The minute that decision is
12 made, whichever one it is, there is already
13 established bodies in state and federal government
14 that will move in to do some of these policing
15 functions.

16 It is a unique thing, so like there is a
17 traditional commodities exchange, and there is a
18 traditional stock exchange mechanism in existence,
19 there may have to be the new traditional carbon
20 exchange. We have wheat, we have corn, now we are
21 going to have carbon, and the first one may be the
22 one that is being basically piloted out of
23 Chicago.

24 Some of the framework for integrity on
25 the financial side, property law, commodities

1 trading law if that is the way it goes, is there.
2 You will own the model here at a state level
3 exchange or registry rather for how you register
4 that deal then will be traded routinely.

5 MS. WITTENBERG: What would make the
6 difference between it being a commodity or a
7 security?

8 MR. PROLMAN: That's when I've got to
9 defer.

10 MR. JONES: What is perspective. In
11 other words, I guarantee to deliver 5,000 tons of
12 2005. The activity hasn't occurred yet, so we are
13 dealing with a futures. I have to either go out
14 there and plant it myself, or in 2005 acquire it.

15 Securities are based on past
16 performance, something that the companies have
17 already generated, activities have been on-going
18 up to a point. You know it when you see it
19 because they are traded in two different forms.

20 The things that are going to affect the
21 carbon market are more analogous to the
22 commodities market, weather events, force majeure,
23 interruptions in shipping patterns, these kinds of
24 things.

25 It means I can't deliver the guava from

1 Samoa on the date I had to, so now I've got to go
2 out and buy guava or pay you. I think that is
3 what distinguishes it, at least in the most
4 rudimentary fashion, from what we are talking
5 about now because when you register perspective
6 projects, as a project developer, you want to sell
7 something you haven't done yet because you get the
8 use of the asset ahead of time to insure that it
9 happens. If you don't deliver when you say it is
10 going to happen, you know, you bear the financial
11 responsibility as is set forth in the contract.

12 That is how I would break these down.
13 You know they are temporal.

14 MS. WITTENBERG: Yeah, okay.

15 MODERATOR BROWN: Are we running out of
16 ideas?

17 MR. PROLMAN: I think we are ready
18 buy/sell trading, we just need two participants.

19 MR. WICKIZER: Need both the sellers
20 anyway.

21 MODERATOR BROWN: Thoughts,
22 observations?

23 MR. JONES: I'm really glad I came
24 because I can't talk about this at home, my wife
25 won't let me.

1 MR. PROLMAN: That's a common problem.

2 MODERATOR BROWN: What do you do with
3 your spare time?

4 MR. JONES: Well, I play golf, but the
5 lights go off when I start talking about carbon
6 after about 30 seconds at the dinner table. Oh,
7 Dad.

8 MS. PASSERO: You are not alone.

9 MODERATOR BROWN: I learned a lot today,
10 and I thank everyone for the discussion. It has
11 been fascinating, and it makes it concrete, more
12 concrete than it was before.

13 MS. PASSERO: I think other feedback --
14 I know there will be written feedback on a lot of
15 the specifics of the protocols, but even just more
16 general, user friendly-type comments on how the
17 documents actually read and the formats are also
18 really helpful.

19 MS. WITTENBERG: Diane Wittenberg. I
20 just echo that this has been a helpful process,
21 and I thought everybody who came to the table this
22 morning and this afternoon were really trying to
23 move the ball forward, and we appreciate that sort
24 of teamwork attitude because we are trying to make
25 something new together that is good.

1 MODERATOR BROWN: Director Tuttle, do
2 you have closing remarks?

3 MS. TUTTLE: I can't believe we have
4 come this far. It is really a thrill for me to
5 listen to this conversation and to see how far we
6 have gotten. No, we are not entirely there, but
7 man, we are way ahead of a lot of other people.
8 On this question on baseline, and this set forest
9 practice rules, as much as some folks who don't
10 really understand what is in here may say this is
11 a very fine level to start from, and if we can
12 raise the rest of the world up to these standards
13 by virtue of our setting this as a starting point
14 for us -- I'm pointing to the Forest Practice Rule
15 book here for those on line -- I think that will
16 be a real step forward for global forestry and
17 global forest practices as well.

18 MODERATOR BROWN: Suzie, any comments
19 from you?

20 MS. GREENHAUGH: No, I think I've had my
21 beef today thanks.

22 MODERATOR BROWN: I think if there is
23 nothing more, I think we are ready to conclude
24 this workshop, and thank everyone for coming, and
25 we look forward to written comments by June 3.

1 (Whereupon, at 2:38 p.m., the workshop
2 was adjourned.)

3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

CERTIFICATE OF REPORTER

I, ALAN MEADE, an Electronic Reporter,
do hereby certify that I am a disinterested person
herein; that I recorded the foregoing California
Energy Commission Workshop; that it was thereafter
transcribed into typewriting.

I further certify that I am not of
counsel or attorney for any of the parties to said
workshop, nor in any way interested in outcome of
said workshop.

IN WITNESS WHEREOF, I have hereunto set
my hand this 27th day of May, 2004.

ALAN MEADE

PETERS SHORTHAND REPORTING CORPORATION (916) 362-2345